Board of Regents

February 2019

February 8, 2019

15 min following adjournment of GOV - 12:00 p.m.

Boardroom, McNamara Alumni Center
1. Approval of Minutes - Action
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2. Report of the President
   Docket Item Summary - Page 28

3. Report of the Chair
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4. Receive & File Reports
   Docket Item Summary - Page 30
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5. Consent Report - Review/Action
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6. Report of the Faculty Consultative Committee
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7. 2018 University Performance and Accountability Report - Action
   Docket Item Summary - Page 81
   Resolution - Page 82
   Report Highlights - Page 83
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8. Law School Metrics and Investment Strategy Update
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   Commercialization of Intellectual Property
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10. New Business
    Docket Item Summary - Page 295
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11. Resolution to Conduct Non-Public Meeting of the Board Pursuant to Minnesota Statutes Section 13D.05, subdivision 3(c)(3) –
Review/Action

Docket Item Summary - Page 299
Resolution - Page 300
Supplemental Slides - Page 301
A special meeting of the Board of Regents of the University of Minnesota was held on Wednesday, December 5, 2018 at 3:00 p.m. in the Boardroom, 600 McNamara Alumni Center.

Regents present: David McMillan, presiding; Thomas Anderson, Richard Beeson, Linda Cohen, Michael Hsu, Dean Johnson, Peggy Lucas, Abdul Omari, Kendall Powell, Darrin Rosha, Randy Simonson, and Steve Sviggum.

Staff present: Executive Vice President and Provost Karen Hanson; Vice Presidents Michael Goh and Matt Kramer; General Counsel Douglas Peterson; and Executive Director Brian Steeves.

The docket materials for this meeting are available here.

**SELECT FINALIST(S) TO BE INTERVIEWED FOR PRESIDENT OF THE UNIVERSITY OF MINNESOTA**

Regent McMillan presented for review and action the selection of finalist(s) to be interviewed for President of the University of Minnesota.

The docket materials for this item begin on page 3. The closed captioned video of this item is available here.

Regent Omari moved approval of a resolution to name candidate A as a finalist for President of the University of Minnesota. The resolution was seconded.

Regent Rosha moved to amend the Omari resolution to add candidate 41 to the list of finalists. The amendment was seconded. The Board voted 3-9, and the amendment failed. Regents Anderson, Beeson, Cohen, Johnson, Lucas, McMillan, Omari, Powell and Sviggum voted no.

Rosha called for a roll call vote on the Omari resolution. The vote was as follows:

- Regent Anderson: Yes
- Regent Beeson: Yes
- Regent Cohen: Yes
- Regent Hsu: Yes
- Regent Johnson: Yes
- Regent Lucas: Yes
- Regent McMillan: Yes
- Regent Powell: Yes
- Regent Rosha: No
- Regent Simonson: Yes
- Regent Sviggum: Yes
Regent Omari  Yes

The Board voted 11-1 and the Omari resolution passed.

The meeting adjourned at 4:50 p.m.

BRIAN R. STEEVES
Executive Director and
Corporate Secretary
A meeting of the Mission Fulfillment Committee of the Board of Regents was held on Thursday, December 13, 2018 at 7:45 a.m. in the Boardroom, 600 McNamara Alumni Center.

Regents present: Abdul Omari, presiding; Thomas Anderson, Richard Beeson, Linda Cohen, Michael Hsu, Dean Johnson, Peggy Lucas, David McMillan, Ken Powell, Darrin Rosha, Randy Simonson, and Steve Sviggum.

Staff present: President Eric Kaler; Chancellor Michelle Behr; Executive Vice President and Provost Karen Hanson; Senior Vice President Brian Burnett; Vice Presidents Christopher Cramer and Michael Goh; General Counsel Douglas Peterson; and Executive Director Brian Steeves.

Student Representatives present: Marta Dean and Austin Kraft.

The docket materials for this meeting are available here.

**BOARD OF REGENTS POLICY: RESEARCH INVOLVING HUMAN SUBJECTS**

Regent Lucas invited Christopher Cramer, Vice President for Research, to present for action proposed changes to Board of Regents Policy: *Research Involving Human Subjects*, as detailed in the docket.

The docket materials for this item begin on page 3. The closed captioned video of this item is available here.

A motion was made and seconded, and the committee voted unanimously to recommend adoption of proposed changes to Board of Regents Policy: *Research Involving Human Subjects*, as detailed in the docket.

**DIVERSITY IN TWIN CITIES CAMPUS UNDERGRADUATE ENROLLMENT**

Regent Omari invited Provost Hanson; Robert McMaster, Vice Provost and Dean of Undergraduate Education; and Sean Garrick, Associate Vice Provost for Equity and Diversity, to discuss diversity in Twin Cities undergraduate enrollment, as detailed in the docket.

The docket materials for this item begin on page 6. The closed captioned video of this item is available here.
Mission Fulfillment Committee
December 13, 2018

SYSTEMWIDE ENROLLMENT PLANNING: DULUTH CAMPUS
Regent Omari invited Fernando Delgado, Executive Vice Chancellor, Academic Affairs, UMD and Mary Keenan, Assistant Vice Chancellor, Academic Affairs, UMD to discuss enrollment planning at UMD, as detailed in the docket.

The docket materials for this item begin on page 63. The closed captioned video of this item is available here.

UPDATE ON TWIN CITIES CAMPUS LIBERAL EDUCATION REQUIREMENTS
Regent Omari invited Provost Hanson; Robert McMaster, Vice Provost and Dean of Undergraduate Education; and Sally Gregory Kohlstedt, Professor, History of Science and Technology Program, Department of Earth Sciences, and Chair, Liberal Education Redesign Committee, to discuss Twin Cities campus liberal education requirements, as detailed in the docket.

The docket materials for this item begin on page 83. The closed captioned video of this item is available here.

GRADUATE AND PROFESSIONAL EDUCATION, PART III: IMPACT AND OUTCOMES OF GRADUATE EDUCATION
Regent Omari invited Scott Lanyon, Vice Provost and Dean of Graduate Education; Kweku Konadu Amponsah-Efah, College of Pharmacy student; and Austin Yantes, College of Food, Agricultural & Natural Resource Sciences student to discuss impacts and outcomes of graduate education, as detailed in the docket.

The docket materials for this item begin on page 112. The closed captioned video of this item is available here.

CONSENT REPORT
A motion was made and seconded, and the committee voted unanimously to recommend approval of the following, as described in the Consent Report:

- **Request for Approval of New Academic Programs**
  - Medical School (Twin Cities campus)—Create fellowship in Neuropathology
  - College of Education and Human Service Professions (Duluth campus)—Create undergraduate certificate in Teaching English as a Foreign Language
  - College of Education and Human Service Professions (Duluth campus)—Create undergraduate minor in Teaching English to Speakers of Other Languages and Multilingual Education
  - Morris Campus—Create undergraduate minor in Data Science
• Request for Approval of Changed Academic Programs
  • College of Education and Human Development (Twin Cities campus)—Change the name of the M.A. degree in Child Psychology to Developmental Psychology
  • Swenson College of Science and Engineering (Duluth campus)—Create a sub-plan in Statistics within the M.S. degree in Mathematical Sciences
  • Swenson College of Science and Engineering (Duluth campus)—Change the name of the graduate minor in Applied and Computational Mathematics to Mathematical Sciences

• Request for Approval of Discontinued Academic Programs
  • College of Education and Human Development (Twin Cities campus)—Discontinue M.A. degree and graduate minor in Multicultural Teaching and Learning
  • College of Education and Human Development (Twin Cities campus)—Discontinue B.S. degree in Recreation Administration
  • College of Education and Human Development (Twin Cities campus)—Discontinue undergraduate minor in Outdoor Recreation and Education
  • College of Pharmacy (Twin Cities campus)—Discontinue graduate minor in Experimental and Clinical Pharmacology
  • Medical School (Twin Cities campus)—Discontinue graduate minor in Rehabilitation Science
  • Morris campus—Discontinue the B.A. degree in Social Science

• Request for Conferral of Tenure for Outside Hires
  • Tracy Bibelnieks, associate professor with tenure, Mathematics and Statistics, Swenson College of Science and Engineering, University of Minnesota Duluth
  • Marc Clark, professor with tenure, Biology, Swenson College of Science and Engineering, University of Minnesota Duluth

The docket materials for this item begin on page 150. The closed captioned video of this item is available here.

INFORMATION ITEMS

Provost Hanson referred the committee to the information items in the docket.

The docket materials for this item begin on page 156. The closed captioned video of this item is available here.

The meeting adjourned at 10:44 a.m.

[Signature]

BRIAN R. STEEVES
Executive Director and Corporate Secretary

Mission Fulfillment Committee
December 13, 2018
A meeting of the Audit & Compliance Committee of the Board of Regents was held on Thursday, December 13, 2018 at 11:00 a.m. in the Boardroom, 600 McNamara Alumni Center.

Regents present: Linda Cohen, presiding; Michael Hsu, Peggy Lucas, David McMillan, Abdul Omari, and Ken Powell.

Staff present: Executive Vice President and Provost Karen Hanson; Vice Presidents Michael Berthelsen, Christopher Cramer, Bernard Gulachek, and Michael Goh; Executive Director Brian Steeves; Chief Auditor Gail Klatt; and Associate Vice President Michael Volna.

Student Representatives present: Anne Barnes and Alexandra Ulland.

The docket materials for this meeting are available here.

**EXTERNAL AUDITOR REPORT**

Regent Cohen invited Suzanne Paulson, Controller; Katie Knudtson, Partner, Deloitte & Touche LLP; and Judi Dockendorf, Managing Director, Deloitte & Touche LLP (Deloitte) to present the external auditor report, as detailed in the docket.

The docket materials for this item begin on page 3. The closed captioned video of this item is available here.

**COMPLIANCE INITIATIVES: CALCULATING THE COST OF COMPLIANCE**

Regent Cohen invited Boyd Kumher, Chief Compliance Officer, to discuss calculating the cost of compliance, as detailed in the docket.

The docket materials for this item begin on page 115. The closed captioned video of this item is available here.

**UNIVERSITY ETHICS PROGRAMMING**

Regent Cohen invited Boyd Kumher, Chief Compliance Officer, to discuss ethics programming, as detailed in the docket.

The docket materials for this item begin on page 134. The closed captioned video of this item is available here.
INFORMATION ITEMS

Chief Auditor Klatt referred the committee to the information items in the docket:

- Institutional Conflict of Interest Report
- Semi-Annual Controller's Report
- Semi-Annual Chief Compliance Officer Report
- Completed Comprehensive Review of Board Policy
- Engagements Less than $100,000 Requiring After-the-Fact Reporting

The docket materials for this item begin on page 147. The closed captioned video of this item is available here.

The meeting adjourned at 12:27 p.m.

BRIAN R. STEEVES
Executive Director and
Corporate Secretary
A meeting of the Litigation Review Committee of the Board of Regents was held on Thursday, December 13, 2018 at 11:00 a.m. in the Sixth Floor, West Committee Room, 600 McNamara Alumni Center.

Regents present: Richard Beeson, presiding; Thomas Anderson, Dean Johnson, Darrin Rosha, Randy Simonson, and Steven Sviggum.

Staff present: President Eric Kaler; Senior Vice President Brian Burnett, General Counsel Douglas Peterson; Executive Director Brian Steeves; and Associate Vice President Michael Volna.

Others present: Sarah Dirksen, Carole Fleck, Carrie Ryan Gallia, Dan Herber, Susan Kratz, Stuart Mason, Rosalie O’Brien, Brian Slovut, and Jon Steadland.

The docket materials for this meeting are available here.

RESOLUTION TO CONDUCT NON-PUBLIC MEETING OF THE LITIGATION REVIEW COMMITTEE

The meeting convened in public session at 11:00 a.m. A motion was made and seconded that the following resolution be adopted:

WHEREAS, based on advice of the General Counsel, the Board of Regents Litigation Review Committee has balanced the purposes served by the Open Meeting Law and by the attorney-client privilege, and determined that there is a need for absolute confidentiality to discuss litigation strategy in particular matters involving the University of Minnesota.

NOW, THEREFORE, BE IT RESOLVED, that in accordance with Minn. Stat. § 13D.01, Subd. 3 and 13D.05 Subd. 3(b), a non-public meeting of Litigation Review Committee be held on December 13, 2018 at 11:00 a.m. in the West Committee Room, 600 McNamara Alumni Center, for the purpose of discussing attorney-client privileged matters including the following:

I. Potential financial instrument litigation

II. Potential malpractice litigation by former employee

III. Young America Foundation v. University of Minnesota

IV. John Does v. Regents of the University of Minnesota, Eric Kaler, and Tina Marisam

Litigation Review Committee
December 13, 2018
V. Potential litigation by former student

VI. Potential litigation by current student

VII. Potential claim by University employee

The committee voted unanimously to adopt the resolution and the public portion of the meeting ended at 11:03 a.m.

The meeting adjourned at 12:31 p.m.

BRIAN R. STEEVES
Executive Director and
Corporate Secretary
A meeting of the Finance & Operations Committee of the Board of Regents was held on Thursday, December 13, 2018 at 1:15 p.m. in the Boardroom, 600 McNamara Alumni Center.

Regents present: Thomas Anderson, presiding; Richard Beeson, Linda Cohen, Michael Hsu, Dean Johnson, Peggy Lucas, David McMillan, Abdul Omari, Kendall Powell, Darrin Rosha, Randy Simonson, and Steve Sviggum.

Staff present: President Eric Kaler; Chancellor Michelle Behr; Executive Vice President and Provost Karen Hanson; Senior Vice President Brian Burnett; Vice Presidents Michael Berthelsen, Kathryn Brown, Christopher Cramer; Michael Goh, and Bernard Gulachek; General Counsel Douglas Peterson; Executive Director Brian Steeves; Associate Vice Presidents Julie Showers, Julie Tonneson, and Michael Volna.

Student Representatives present: Mckenzie Dice and Jael Kerandi.

The docket materials for this meeting are available here.

**COLLEGE OF SCIENCE AND ENGINEERING TUITION SURCHARGE**

Regent Anderson invited Mos Kaveh, Dean of the College of Science and Engineering, Twin Cities campus and Associate Vice President Tonneson to review a proposed surcharge for the College of Science and Engineering, as detailed in the docket.

The docket materials for this item begin on page 4. The closed captioned video of this item is available here.

**RESOLUTION RELATED TO FY 2020 TWIN CITIES UNDERGRADUATE NONRESIDENT/NON-RECIROCITY TUITION RATE**

Regent Anderson invited Associate Vice President Tonneson to present for action the resolution related to the FY 2020 Twin Cities Undergraduate Nonresident/Non-reciprocity Tuition Rate, as detailed in the docket.

The docket materials for this item begin on page 23. The closed captioned video of this item is available here.

A motion was made and seconded and the committee voted nine to three to recommend approval of the resolution related to the FY 2020 Twin Cities Undergraduate Nonresident/Non-reciprocity Tuition Rate. Regents Cohen, Lucas, and Omari voted no.
REGENTS OF THE UNIVERSITY OF MINNESOTA TRAFFIC REGULATION ORDINANCES AND ESTABLISHMENT OF HEARING DATE

Regent Anderson invited Vice President Berthelsen and Ross Allanson, Director, Parking and Transportation Services, to review proposed amendments to the Regents of the University of Minnesota Traffic Regulation Ordinances, as detailed in the docket.

The docket materials for this item begin on page 32. The closed captioned video of this item is available here.

A motion was made and seconded and the committee voted unanimously to recommend approval to establish a public hearing date as stated in the resolution related to the adoption of amendments to the Regents of the University of Minnesota Traffic Regulation Ordinances.

Anderson recessed the meeting at 2:43 p.m.

CAPITAL BUDGET AMENDMENT: EASTCLIFF RENOVATION & REPAIR

Regent Anderson reconvened the meeting at 2:54 p.m. and invited Vice President Berthelsen and Lyndel King, Chair of the Eastcliff Technical Advisory Committee, to present for review an amendment to the FY 2019 Annual Capital Improvement Budget for Eastcliff renovation and repair, as detailed in the docket.

The docket materials for this item begin on page 58. The closed captioned video of this item is available here.

COLLECTIVE BARGAINING AGREEMENT:
AFSCME LOCAL 3260 (HEALTH CARE UNIT)

Regent Anderson invited Patti Dion, Senior Director, Office of Human Resources to present for review and action a collective bargaining agreement with AFSCME Local 3260, as detailed in the docket.

The docket materials for this item begin on page 70. The closed captioned video of this item is available here.

A motion was made and seconded, and the committee voted unanimously to recommend approval of the resolution related to the proposed labor agreement with AFSCME Local 3260 (Health Care Unit).

STRATEGIC PRIORITIES: SUPPORTING THE MISSION INITIATIVES, PART 1

Regent Anderson invited Vice President Gulachek to discuss the role of information technology in supporting the University's strategic priorities, as detailed in the docket.
CONSENT REPORT

Senior Vice President Burnett presented the revised Consent Report, as detailed in the docket.

The revised docket materials for this item begin on page 93. The closed captioned video of this item is available here.

General Contingency:

- There were no items requiring approval this period.

Purchase of Goods and Services $1,000,000 and Over:

- To Factory Mutual Insurance Company (FM Global) for an estimated amount of $6,630,000 to purchase property insurance for the University of Minnesota for the Office of Risk Management and Insurance for the period July 1, 2019 through June 30, 2021. This contract is funded through the Office of Risk Management and Insurance's property insurance recharge cost pool. See enclosed documentation for basis of supplier selection.

- To Finish Line Flooring and S2 Services Inc. for approximately $1,425,000 for providing floor care services as needed for Facilities Management for the period of January 1, 2019 through December 31, 2024. Contract floor care services are budgeted by a variety of organizations on the Twin Cities campus through their facilities budget. Suppliers were selected through a competitive process.

- To IONpath for $1,750,000 for Multiplexed Ion Beam Imaging System (MIBI) and service agreement for Department of Laboratory Medicine and University Imaging Centers for the period of December 1, 2018 through December 31, 2023. The MIBI system will be purchased from existing departmental funds available for this research and managed by the University Imaging Centers for availability for use to the widest possible research community. Supplier was selected through a competitive process.

- To John Wiley & Sons, Inc. (Wiley) for an estimated $3,841,000 for journal subscriptions available via Wiley Online Library as needed for the University Libraries for the three-year period of January 1, 2019, through December 31, 2021. The estimated costs for this subscription to Wiley over the next three years is included in the University Libraries and Law Libraries 2019, 2020, and 2021 expected budgets. Supplier was selected through a competitive process.

- To Minnesota Elevator, Inc. for an estimated $236,040 for providing vertical transportation maintenance services on the Duluth Campus as needed for Facilities Management for a period of February 1, 2019 through January 31, 2020 with possible contract extensions through January 31, 2025 for an additional $1,279,437. Total contract value if all additional options are exercised would be $1,515,477. The funding source for the maintenance and operations of elevators is the Department of Facilities Management Operating and
Maintenance budget. Supplier was selected through a competitive process.

- To OCHIN, Inc. for an estimated $3,500,000 for OCHIN's Epic practice management and electronic health record (EHR) solutions for Community-University Health Care Center (CUHCC) for the period of July 1, 2019 through June 30, 2026. Community-University Health Care Center (CUHCC) has the financial reserves needed to meet all obligations for the purchase of the new Electronic Health Record (EHR) system, including the implementation cost; a cost that has been identified as a line item in the FY2019 budget approved by its community board. Supplier was selected through a competitive process.

- To Roche Diagnostics for $2,040,100 for COBAS 8000 Clinical Chemistry Analyzer, related Roche Middleware IT Solutions, and consumable Chemistry and Immunodiagnostic Reagents for the Advanced Research and Diagnostic Laboratory (ARDL) as part of Laboratory Medicine and Pathology, Medical School for the period of January 1, 2019 through December 31, 2024. The reagents from Roche Diagnostics will be purchased with departmental funds. As an Internal Sales Organization (ISO), the ARDL will order reagents as needed for University researchers. See enclosed documentation for basis of supplier selection.

- To Zoom Video Communications, Inc. for $1,423,720 to provide an enterprise online meeting solution for all University of Minnesota faculty, staff, and students for the Office of Information Technology (OIT) for the period February 1, 2019 through January 31, 2024 with possible contract extensions through January 31, 2026 for an additional $569,488. Total value of the contract if all options are exercised would be $1,993,208. This requirement is currently budgeted and will be funded utilizing O&M funds. Supplier was selected through a competitive process.

In addition to the purchases listed above, a correction was made to a purchase approved in October 2018:

- To Egan, Nasseff, Northern Air Corporation Northland Mechanical Contractors, and Metropolitan Mechanical Contractors, Inc. for an estimated $2,000,000 for providing contract mechanical and electrical maintenance support services and supplemental facilities management construction services as needed for Facilities Management for the period of November 1, 2018 through October 31, 2023. Contract mechanical and electrical maintenance support services and supplemental facilities management construction services is budgeted by a variety of organizations on the Twin Cities campus through their facilities budget. Suppliers were selected through a competitive process.

Employment Agreement

The purpose of this item is to seek approval for the following employment agreement:

- Third amendment to employment agreement - Head Football Coach, Twin Cities campus

Off Cycle Tuition Approval

Capital Budget Amendments

- CHS Teaching and Learning Lab Renovation (Twin Cities campus)
- Essex Corridor Reconstruction (Twin Cities campus)
Resolution Related to the Issuance of Debt
Resolution Related to the Refinancing of Debt
Schematic Designs

CHS Teaching and Learning Lab Renovation (Twin Cities campus)

Regent Rosha requested that the third amendment to the employment agreement for the Head Football Coach, Twin Cities campus be separated from the Consent Report.

A motion was made and seconded, and the committee voted unanimously to recommend approval of the Consent Report, excluding the employment agreement for the Head Football Coach, Twin Cities campus.

A motion was made and seconded, and the committee voted 10-2 to recommend approval of the employment agreement for the Head Football Coach, Twin Cities campus. Regents Johnson and Omari voted no.

INFORMATION ITEMS

Senior Vice President Burnett referred the committee to the information items in the docket:

- Administrative Cost Definition and Benchmarking Update
- Completed Comprehensive Review of Board Policy
  - Board of Regents Policy: Conflict Resolution Process for Employees
- Debt Management Advisory Committee Update
- Investment Advisory Committee Update
- Quarterly Asset Management Report
- Quarterly Purchasing Report
- Semi-annual Capital Project Management Report

The docket materials for this item begin on page 143. The closed captioned video of this item is available here.

The meeting adjourned at 4:04 p.m.

BRIAN R. STEEVES
Executive Director and Corporate Secretary
A meeting of the Governance & Policy Committee of the Board of Regents was held on Friday, December 14, 2018 at 7:45 a.m. in the Boardroom, 600 McNamara Alumni Center.


Staff present: President Eric Kaler; Chancellor Lori Carrell; Senior Vice President Brian Burnett; Vice Presidents Michael Berthelsen, Christopher Cramer, and Michael Goh; General Counsel Douglas Peterson; and Executive Director Brian Steeves.

The docket materials for this meeting are available here.

ETHICS AND RESPONSIBILITIES OF THE BOARD AND REGENTS, PART 2

Regent Rosha invited Executive Director Steeves and Jason Langworthy, Board Associate, Policy & Committees, to continue the discussion of the ethics and responsibilities of the Board and Regents, as detailed in the docket.

The docket materials for this item begin on page 2. The closed captioned video of this item is available here.

BOARD INPUT INTO THE REGENT SELECTION PROCESS

Executive Director Steeves referred the committee to the information items in the docket:

- Completed comprehensive review of Board policy
  - Board of Regents Policy: Possession and Carrying of Weapons
  - Board of Regents Policy: Safety of Minors

The docket materials for this item begin on page 20. The closed captioned video of this item is available here.
The meeting adjourned at 8:42 a.m.

BRIAN R. STEEVES
Executive Director and
Corporate Secretary
A meeting of the Board of Regents of the University of Minnesota was held on Friday, December 14, 2018 at 9:10 a.m. in the Boardroom, 600 McNamara Alumni Center.

Regents present: David McMillan, presiding; Thomas Anderson, Richard Beeson, Linda Cohen, Michael Hsu, Dean Johnson, Peggy Lucas, Abdul Omari, Kendall Powell, Darrin Rosha, Randy Simonson, and Steve Sviggum.

Staff present: President Eric Kaler; Chancellor Lori Carrell; Executive Vice President and Provost Karen Hanson; Senior Vice President Brian Burnett; Vice Presidents Michael Berthelsen, Kathryn Brown, Christopher Cramer, Michael Goh, and Bernard Gulachek; General Counsel Douglas Peterson; Executive Director Brian Steeves; Chief Auditor Gail Klatt; and Associate Vice President Michael Volna.

The docket materials for this meeting are available here.

INTRODUCTIONS

Incoming Vice President for Research

President Kaler introduced Chris Cramer, incoming Vice President for Research. The docket materials for this item begin on page 3. The closed captioned video of this item is available here.

RECOGNITIONS

Outgoing Vice President for Research

President Kaler recognized Al Levine, outgoing Vice President for Research. The docket materials for this item begin on page 4. The closed captioned video of this item is available here.

APPROVAL OF MINUTES

The Board voted unanimously to approve the following minutes as presented in the docket materials:

Mission Fulfillment Committee – October 11, 2018
Audit & Compliance Committee – October 11, 2018
Litigation Review Committee – October 11, 2018
Finance & Operations Committee – October 11, 2018
Governance & Policy Committee – October 12, 2018
Board of Regents – October 12, 2018

The docket materials for this item begin on page 5. The closed captioned video of this item is available here.

REPORT OF THE PRESIDENT

President Kaler delivered the report of the President. A copy of the Report of the President is on file in the Board Office.

The docket materials for this item begin on page 33. The closed captioned video of this item is available here.

REPORT OF THE CHAIR

Regent McMillan delivered the report of the Chair. A copy of the Report of the Chair is on file in the Board Office.

The docket materials for this item begin on page 34. The closed captioned video of this item is available here.

CONSENT REPORT

Regent McMillan presented for review and action the Consent Report as described in the docket materials, including:

- Gifts
- Report of the All-University Honors Committee

A motion was made and seconded, and the Board voted unanimously to approve the Consent Report.

The docket materials for this item begin on page 156. The closed captioned video of this item is available here.

2018 UNIVERSITY PERFORMANCE AND ACCOUNTABILITY REPORT

Regent McMillan noted the 2018 University Performance and Accountability Report, as detailed in the docket.

The docket materials for this item begin on page 177. The closed captioned video of this item is available here.
REPORT OF THE MISSION FULFILLMENT COMMITTEE

Regent Omari, chair of the committee, reported that the committee voted unanimously to recommend the following items.

The committee docket materials can be found here. The closed captioned video of this item is available here.

1) Approval of the proposed amendments to Board of Regents Policy: Research Involving Human Subjects. The committee docket materials for this item can be found on page 3. A motion was made and seconded, and the Board voted unanimously to adopt the proposed amendments.

2) Approval of the Consent Report for the Mission Fulfillment Committee as presented to the committee and described in the December 13, 2018 committee minutes. The committee docket materials for this item can be found on page 150. A motion was made, and the Board voted unanimously to approve the Consent Report.

REPORT OF THE AUDIT & COMPLIANCE COMMITTEE

Regent Cohen, chair of the committee, reported that the committee did not take action on any items this month.

The committee docket materials can be found here. The closed captioned video of this item is available here.

REPORT OF THE LITIGATION REVIEW COMMITTEE

Regent Beeson, chair of the committee, reported that pursuant to notice sent by the University, the Litigation Review Committee met on December 13, 2018. At this meeting, a resolution was considered and adopted that authorized the closing of the meeting. In the closed meeting, discussion was held on matters subject to the attorney-client privilege.

The committee docket materials can be found here. The closed captioned video of this item is available here.

REPORT OF THE FINANCE & OPERATIONS COMMITTEE

Regent Anderson, chair of the committee, reported that the committee voted to recommend the following items.

The committee docket materials can be found here. The closed captioned video of this item is available here.

1) Approval of the resolution related to FY2020 Twin Cities undergraduate Nonresident/Non-Reciprocity Tuition Rate. The committee docket materials for this item can be found on page 23. A motion was made, and the Board voted 8-4 to approve the resolution, as follows. Regents Anderson, Cohen, Lucas and Omari voted no.

Board of Regents
December 14, 2018
WHEREAS, the University of Minnesota is committed to achieving standards of national and international excellence; and

WHEREAS, the current undergraduate nonresident/non-reciprocity tuition rate for the Twin Cities campus is set at a level inconsistent with the corresponding resident tuition rate in terms of comparison to peers; and

WHEREAS, communicating a significant change in the Twin Cities undergraduate nonresident/non-reciprocity tuition rate as early as possible, before the end of the calendar year, will benefit the process to reach enrollment goals;

NOW, THEREFORE, BE IT RESOLVED that the Board of Regents approves the FY 2020 Twin Cities undergraduate nonresident/non-reciprocity tuition rate as stated in Attachment 1 - University of Minnesota 2019-20 Tuition Plan, with a commitment to hold the rate increases to no more than 5.5 percent for continuing nonresident/non-reciprocity students.

2) Approval of the proposed amendments to the Regents of the University of Minnesota Traffic Regulation Ordinances and Establishment of Hearing Date. The committee docket materials for this item can be found on page 32. A motion was made, and the Board voted unanimously to approve the amendments, as follows:

WHEREAS, in accordance with Minnesota Statutes 1979, Chapter 169.965 and Chapter 137.12 the Regents of the University of Minnesota have adopted Traffic Regulation Ordinances; and

WHEREAS, the Regents of the University of Minnesota reserve the right to amend and update the Traffic Regulation Ordinances from time to time as recommended by the administration; and

WHEREAS, the administration has recommended amendments to the Traffic Regulation Ordinances to reflect new modes of transportation and other campus operational changes; and

WHEREAS, amending the Regents Traffic Regulation Ordinances require a public hearing on the proposed amendment.

NOW, THEREFORE, BE IT RESOLVED, that the Regents of the University of Minnesota shall conduct a public hearing on the proposed amendment to the Regents Traffic Regulation Ordinances on the 7th day of February, 2019, at 7:45 a.m., in the Board Room, on the 6th floor of the McNamara Alumni Center, located at 200 Oak Street Southeast, Minneapolis, Minnesota.

BE IT FURTHER RESOLVED, that the notice of said hearing shall be published in legal newspapers in the following counties: Hennepin, Ramsey, St. Louis, Polk, Stevens, Olmsted, Dakota, Carver, Anoka, Isanti, Washington, and Clearwater;

BE IT FURTHER RESOLVED, that said notice shall read as follows:
NOTICE OF HEARING:

The Regents of the University of Minnesota does hereby give notice to the public that on the 7th
day of February, 2019, at 7:45 a.m., in the Board Room, on the 6th Floor of the McNamara
Alumni Center located at 200 Oak Street Southeast, Minneapolis, Minnesota on the University of
Minnesota Twin Cities/Minneapolis/East Bank Campus it will conduct a public hearing on a
proposed amendment to Regents of the University of Minnesota Traffic Regulation Ordinances.
As amended, Regents of the University of Minnesota Traffic Regulation Ordinances will read as
follows:

The text of the proposed amended Regents of the University of Minnesota Traffic Regulation
Ordinances can be found on page 35 of the Finance and Operations Committee docket.

3) Approval of the proposed Collective Bargaining Agreement with AFSCME Local 3260
(Health Care Unit). The committee docket materials for this item can be found on page
70. A motion was made, and the Board voted unanimously to approve the resolution, as
follows:

WHEREAS, the parties have met and negotiated and have reached agreement regarding
terms and conditions of employment regarding the employees of this bargaining unit; and

WHEREAS, The AFSCME Local 3260 (Health Care) has ratified acceptance of this agreement;
and

WHEREAS, according to Board of Regents Policy: Reservation and Delegation of Authority,
approval of labor agreements by the Board of Regents is required.

NOW, THEREFORE, BE IT RESOLVED that on the recommendation of the President, the
Board of Regents approves this labor agreement as outlined in the docket for December 13,
2018.

4) Approval of Revised Version 2 of the Consent Report for the Finance & Operations
Committee as presented to the committee and described in the December 13, 2018
committee minutes. The committee docket materials for this item can be found on page 93.
The item on Amendment to Employment Agreement – Head Football Coach, Twin Cities
campus was separated from Revised Version 2 of the Consent Report. A motion was made,
and the Board voted unanimously to approve Revised Version 2 of the Consent Report.

5) Approval of the proposed Amendment to Employment Agreement – Head Football Coach,
Twin Cities campus. The committee docket materials for this item can be found on page 117.
A motion was made, and the Board voted 11-1 to approve the motion. Regent Omari voted
no.

REPORT OF THE GOVERNANCE & POLICY COMMITTEE

Regent Rosha, chair of the committee, reported that the committee did not take action on any items
this month.

The committee docket materials can be found here. The closed captioned video of this item is
available here.
NEW BUSINESS

Regent Johnson noted the passing of Regent Emeritus Bob Bergland earlier in the week.

McMillan recessed the meeting at 9:39 a.m.

INTERVIEW FINALIST FOR PRESIDENT OF THE UNIVERSITY OF MINNESOTA

Regent McMillan reconvened the meeting at 9:52 a.m. and invited Joan T. A. Gabel to interview for the position of President of the University of Minnesota. McMillan invited Gabel to continue the interview following a brief disruption.

The docket materials for this item begin on page 312. The closed captioned video of this item is available here.

The meeting adjourned at 11:55 a.m.

BRIAN R. STEEVES
Executive Director and
Corporate Secretary
A special meeting of the Board of Regents of the University of Minnesota was held on Tuesday, December 18, 2018 at 10:00 a.m. in the Boardroom, 600 McNamara Alumni Center.


Staff present: Executive Vice President and Provost Karen Hanson; Vice President Matt Kramer; General Counsel Douglas Peterson; Executive Director Brian Steeves; and Chief Auditor Gail Klatt.

The docket materials for this meeting are available here.

APPOINTMENT OF PRESIDENT OF THE UNIVERSITY OF MINNESOTA

Regent McMillan presented for review and action the appointment of Joan T. A. Gabel as the President of the University of Minnesota.

The docket materials for this item begin on page 3. The closed captioned video of this item is available here.

A motion was made and seconded, and the Board voted unanimously to approve Joan T. A. Gabel as the 17th President of the University of Minnesota.

GABEL EMPLOYMENT AGREEMENT

Regent McMillan presented for review and action an employment agreement with Joan T. A. Gabel, as detailed in the docket.

The docket materials for this item begin on page 17. The closed captioned video of this item is available here.

A motion was made and seconded, and the Board voted unanimously to approve the employment agreement with Joan T. A. Gabel for the position of President of the University of Minnesota.
The meeting adjourned at 10:34 a.m.

BRIAN R. STEEVES
Executive Director and
Corporate Secretary
AGENDA ITEM: Report of the President

☐ Review  ☐ Review + Action  ☐ Action  ☒ Discussion

This is a report required by Board policy.

PRESENTERS: President Eric W. Kaler

PURPOSE & KEY POINTS

It is customary for the President to report on items of interest to the University community at each Board meeting.
AGENDA ITEM: Report of the Chair

☐ Review ☐ Review + Action ☐ Action ☒ Discussion

☐ This is a report required by Board policy.

PRESENTERS: Regent David J. McMillan

PURPOSE & KEY POINTS

It is customary for the Chair to report on items of interest to the University community at each Board meeting.
AGENDA ITEM: Receive & File Reports

☐ Review ☐ Review + Action ☐ Action ☒ Discussion

This is a report required by Board policy.

PRESENTERS: Regent David J. McMillan

PURPOSE & KEY POINTS

The following items are included for receipt and filing:

A. Summary of Expenditures
<table>
<thead>
<tr>
<th>FY 2019</th>
<th>FY 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Budgeted</strong></td>
<td><strong>Actual</strong></td>
</tr>
<tr>
<td>Revenues / Expenditures</td>
<td>Revenues / Expenditures</td>
</tr>
<tr>
<td>Beginning Balance</td>
<td>$255,000</td>
</tr>
<tr>
<td>(Prior Year Carryforward)</td>
<td></td>
</tr>
<tr>
<td><strong>Revenues</strong></td>
<td></td>
</tr>
<tr>
<td>Total Allocation</td>
<td>$918,937</td>
</tr>
<tr>
<td>Net Transfers</td>
<td>$-</td>
</tr>
<tr>
<td><strong>Total Resources</strong></td>
<td>$1,173,937</td>
</tr>
<tr>
<td><strong>Expenditures</strong></td>
<td></td>
</tr>
<tr>
<td>Salaries</td>
<td>$623,053</td>
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<tr>
<td>Fringe Benefits</td>
<td>$206,588</td>
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<tr>
<td>Supplies, Equipment, Board Expenses, etc.</td>
<td>$243,895</td>
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<tr>
<td><strong>Total Expenditures</strong></td>
<td>$1,073,536</td>
</tr>
<tr>
<td><strong>Ending Balance</strong></td>
<td>$100,401</td>
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<tr>
<td></td>
<td>CURRENT YEAR</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Beginning Balance (Prior Year Carry forward)</td>
<td>768,228</td>
</tr>
<tr>
<td>Revenues</td>
<td></td>
</tr>
<tr>
<td>Transfer in</td>
<td>224,600</td>
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<tr>
<td>Total Year Allocation</td>
<td>3,361,997</td>
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<tr>
<td>Total Resources</td>
<td><strong>$4,354,825</strong></td>
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<td>Expenditures</td>
<td></td>
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<tr>
<td>President's Office Salaries</td>
<td>1,555,185</td>
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<tr>
<td>President's Office Fringe Benefits</td>
<td>737,438</td>
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<tr>
<td>Supplies, Expense, Equipment Ofc of the President-General Operations</td>
<td>153,346</td>
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<tr>
<td>President's Travel&amp;External Relations</td>
<td>26,116</td>
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<tr>
<td>Academic/Programmatic Initiatives</td>
<td>550,300</td>
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<tr>
<td>University Wide Memberships</td>
<td>318,212</td>
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<tr>
<td>Sub Total Expenditures-Presidents Ofc</td>
<td><strong>$3,340,597</strong></td>
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<td>Eastcliff Management Office Salaries</td>
<td>43,019</td>
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<td>Eastcliff Management Office Fringe Benefits</td>
<td>3,312</td>
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<td>Supplies, Expense, Equipment Eastcliff Management Ofc-General Operations</td>
<td>4,630</td>
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<td>Sub Total Expenditures-Eastcliff</td>
<td><strong>$50,961</strong></td>
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<td>Total Expenditures</td>
<td><strong>$3,391,558</strong></td>
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<tr>
<td>Ending Balance</td>
<td><strong>$963,267</strong></td>
</tr>
</tbody>
</table>
University of Minnesota
Facilities Management and President's Office Summary of Expenditures for Eastcliff
General Operations and Maintenance Fund
6 Months Ending December 31, 2018
(unaudited)

<table>
<thead>
<tr>
<th></th>
<th>CURRENT YEAR</th>
<th></th>
<th>PRIOR YEAR</th>
<th></th>
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</thead>
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<tr>
<td></td>
<td>FM Eastcliff Management 2018/19</td>
<td>Eastcliff event Management 2018/19</td>
<td>TOTAL</td>
<td>FM Eastcliff Management 2017/18</td>
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<tr>
<td>Beginning Balance (Prior Year Carry forward)</td>
<td>244,685</td>
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<td>$244,685</td>
<td>223,990</td>
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<td>Revenues</td>
<td></td>
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<td>Total Year Allocation</td>
<td>320,683</td>
<td>74,606</td>
<td>$395,289</td>
<td>313,012</td>
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<tr>
<td>Transfer from Office of the President</td>
<td>$0</td>
<td></td>
<td>$0</td>
<td></td>
</tr>
<tr>
<td>Transfer from the general contingency fund</td>
<td>$0</td>
<td></td>
<td>$0</td>
<td></td>
</tr>
<tr>
<td>Transfer from Central Reserves</td>
<td>$0</td>
<td></td>
<td>$0</td>
<td></td>
</tr>
<tr>
<td>Total Resources</td>
<td>$320,683</td>
<td>$319,291</td>
<td>$639,974</td>
<td>$313,012</td>
</tr>
<tr>
<td>Expenditures</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salaries and Fringe Benefits</td>
<td>45,248</td>
<td>11,825</td>
<td>$57,073</td>
<td>44,543</td>
</tr>
<tr>
<td>Supplies, Expense, Equipment</td>
<td>125,474</td>
<td>2,867</td>
<td>$128,341</td>
<td>142,437</td>
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<tr>
<td>Transfer to FM</td>
<td>$0</td>
<td></td>
<td>$0</td>
<td>-12,592</td>
</tr>
<tr>
<td>Transfer to/(from) the Eastcliff Project Reserve</td>
<td>$0</td>
<td></td>
<td>$0</td>
<td></td>
</tr>
<tr>
<td>Total Expenditures</td>
<td>$170,722</td>
<td>$14,693</td>
<td>$185,415</td>
<td>$174,388</td>
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<tr>
<td>Ending Balance</td>
<td>$149,961</td>
<td>$304,598</td>
<td>$454,559</td>
<td>$138,624</td>
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</table>
AGENDA ITEM: Consent Report

☐ Review  ☒ Review + Action  ☐ Action  ☐ Discussion

☐ This is a report required by Board policy.

PRESENTERS: Regent David J. McMillan

PURPOSE & KEY POINTS

The purpose of this item is action on items in the Consent Report.

A. Gifts
   The President recommends approval of the Summary Report of Gifts to the University of Minnesota through December 31, 2018.

B. Report of the Naming Committee
   The President recommends approval of the University Naming Committee recommendations forwarded to the Board in a letter dated January 31, 2019.

PRESIDENT’S RECOMMENDATION

The President recommends approval of the Consent Report.
**February 2019 Regents Meeting**

<table>
<thead>
<tr>
<th></th>
<th>November</th>
<th>Year-to-Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2018</td>
<td>2017</td>
</tr>
<tr>
<td></td>
<td>11/30/18</td>
<td>11/30/17</td>
</tr>
<tr>
<td>U of M Gift Receiving</td>
<td>$186,778</td>
<td>$44,954</td>
</tr>
<tr>
<td>Arboretum Foundation</td>
<td>931,201</td>
<td>451,541</td>
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<tr>
<td>Univ of MN Foundation</td>
<td>21,919,752</td>
<td>21,080,658</td>
</tr>
<tr>
<td>Total Gift Activity</td>
<td>$23,037,731</td>
<td>$21,577,153</td>
</tr>
</tbody>
</table>

*Detail on gifts of $5,000 and over is attached.*

Pledges are recorded when they are received. To avoid double reporting, any receipts which are payments on pledges are excluded from the report amount.
## Gifts to benefit the University of Minnesota

### Gifts received in November 2018

<table>
<thead>
<tr>
<th>Donor</th>
<th>Gift/Pledge</th>
<th>Purpose of gift</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>$1 Million and Over</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lupus Link Minnesota</td>
<td>Gift</td>
<td>Medical School</td>
</tr>
<tr>
<td>Anonymous</td>
<td>Gift</td>
<td>Academic Health Center</td>
</tr>
<tr>
<td>William L McReavy Sr and Kathleen B McReavy</td>
<td>Pledge</td>
<td>Intercollegiate Athletics</td>
</tr>
<tr>
<td><strong>$500,000 - $1,000,000</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bentson Fdn</td>
<td>Pledge</td>
<td>College of Education and Human Development</td>
</tr>
<tr>
<td>Rum Fund</td>
<td>Pledge</td>
<td>Humphrey School of Public Affairs</td>
</tr>
<tr>
<td><strong>$250,000 - $500,000</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Hormel Fdn</td>
<td>Gift</td>
<td>Hormel Institute</td>
</tr>
<tr>
<td>The McKnight Fdn</td>
<td>Gift</td>
<td>Various Colleges</td>
</tr>
<tr>
<td>Delta Dental of Minnesota Fdn</td>
<td>Pledge</td>
<td>School of Dentistry</td>
</tr>
<tr>
<td>Harriett E Mattson Estate</td>
<td>Gift</td>
<td>College of Science and Engineering</td>
</tr>
<tr>
<td>Lucy C Stitzer</td>
<td>Pledge</td>
<td>Minnesota Landscape Arboretum</td>
</tr>
<tr>
<td>Warren F Davis</td>
<td>Gift</td>
<td>University of Minnesota Duluth</td>
</tr>
<tr>
<td>MGK</td>
<td>Pledge</td>
<td>College of Food, Agricultural and Natural Resource Sciences</td>
</tr>
<tr>
<td>Parachute Holdings LLC</td>
<td>Gift</td>
<td>Medical School</td>
</tr>
<tr>
<td>Eleanor R Asplin Estate</td>
<td>Gift</td>
<td>Carlson School of Management</td>
</tr>
<tr>
<td><strong>$100,000 - $250,000</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anonymous</td>
<td>Gift</td>
<td>Medical School</td>
</tr>
<tr>
<td>S S Steiner, Inc</td>
<td>Pledge</td>
<td>College of Food, Agricultural and Natural Resource Sciences</td>
</tr>
<tr>
<td>Carol Tripp Estate</td>
<td>Gift</td>
<td>Medical School</td>
</tr>
<tr>
<td>Hubbard Broadcasting Inc</td>
<td>Pledge</td>
<td>Medical School</td>
</tr>
<tr>
<td>Soran Fdn-Signature Fund of the Mpls Fdn</td>
<td>Gift</td>
<td>College of Education and Human Development</td>
</tr>
<tr>
<td>Louise B Leatherdale</td>
<td>Gift</td>
<td>College of Veterinary Medicine</td>
</tr>
<tr>
<td>Richard M Schulze Family Fdn</td>
<td>Gift</td>
<td>Medical School, Minnesota Landscape Arboretum</td>
</tr>
<tr>
<td>Robert C Swanson Estate</td>
<td>Gift</td>
<td>Intercollegiate Athletics</td>
</tr>
<tr>
<td>Land O'Lakes Inc</td>
<td>Gift</td>
<td>College of Food, Agricultural and Natural Resource Sciences</td>
</tr>
</tbody>
</table>
$100,000 - $250,000

Medtronic Inc
Conrad I Karleen and Ruth V Karleen
Charitable Trust
Anonymous
Gwen N Stanley
Albert Victor Ravenholt Fund
Campbell Fdn
Dana J and M Katherine Harms
Lucy B Rorke-Adams
Marvin D Richards
Nerves Inc
Paul A Crowell
U S Bank

Gift
Gift
Gift
Gift
Pledge
Pledge
Pledge
Gift
Pledge
Pledge

College of Science and Engineering, Medical School
Medical School
Medical School
College of Liberal Arts
Medical School
Medical School
Minnesota Landscape Arboretum
Intercollegiate Athletics
Medical School
Intercollegiate Athletics

$50,000 - $100,000

3M Co
Gary R and Helen Dowling
Newman's Own Fdn
Gary B Silberstein
Intl Disk Drive Equipment and Materials Assn
Minnesota Lions Vision Fdn Inc
David J Pink Estate
Ben Fujimoto Estate
Van Sloun Fdn
George B Chesley
Diane K and Thomas P Lentz

Gift
Gift
Gift
Pledge
Gift
Gift
Gift
Gift
Gift
Gift/Pledge

School of Dentistry, College of Science and Engineering, Scholarships
College of Science and Engineering
Carlson School of Management
College of Biological Sciences
College of Science and Engineering
Medical School
College of Liberal Arts
College of Science and Engineering
College of Veterinary Medicine, Minnesota Landscape Arboretum
College of Science and Engineering
College of Science and Engineering, College of Veterinary Medicine, Intercollegiate Athletics

Chainbreaker
Becton Dickinson and Co
GN Hearing Care Corp
RTP Co
The Hinman Fdn
Frank J and Eleanor A Maslowski Charitable Trust
Robert S and Pamela M Berkowitz
Lake Minnetonka Garden Club
Sandra Lee Simon and Robert Brady

Gift
Gift
Gift
Gift
Gift
Gift
Pledge
Gift
Gift

Academic Health Center
College of Science and Engineering
College of Liberal Arts
College of Science and Engineering
Carlson School of Management
College of Science and Engineering
Intercollegiate Athletics
Minnesota Landscape Arboretum
Weisman Art Museum
<table>
<thead>
<tr>
<th>Amount Range</th>
<th>Name/Description</th>
<th>Type</th>
<th>Department/Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>$50,000 - $100,000</td>
<td>PepsiCo Inc</td>
<td>Gift</td>
<td>College of Food, Agricultural and Natural Resource Sciences</td>
</tr>
<tr>
<td></td>
<td>Anonymous Donor Fund-Mpls Fdn</td>
<td>Gift</td>
<td>Various Colleges</td>
</tr>
<tr>
<td></td>
<td>Bastian Family Fund-Morgan Stanley Gift</td>
<td>Gift</td>
<td>Carlson School of Management</td>
</tr>
<tr>
<td></td>
<td>Big Sky Cattle LLC</td>
<td>Pledge</td>
<td>Intercollegiate Athletics</td>
</tr>
<tr>
<td></td>
<td>BioZyme Inc</td>
<td>Gift</td>
<td>College of Food, Agricultural and Natural Resource Sciences</td>
</tr>
<tr>
<td></td>
<td>Frank G Ondrey</td>
<td>Pledge</td>
<td>Medical School</td>
</tr>
<tr>
<td></td>
<td>Gerald D and Sharon K Jordahl</td>
<td>Pledge</td>
<td>Intercollegiate Athletics</td>
</tr>
<tr>
<td></td>
<td>Jerome J and Janis L Hurley</td>
<td>Pledge</td>
<td>Intercollegiate Athletics</td>
</tr>
<tr>
<td></td>
<td>Paul Martin Fund</td>
<td>Gift</td>
<td>Intercollegiate Athletics</td>
</tr>
<tr>
<td>$25,000 - $50,000</td>
<td>Randall C and Marcia H Betcher</td>
<td>Gift</td>
<td>Academic Health Center, Minnesota Landscape Arboretum</td>
</tr>
<tr>
<td></td>
<td>Ruth A Draut Estate</td>
<td>Gift</td>
<td>University of Minnesota Extension</td>
</tr>
<tr>
<td></td>
<td>Arvid Olson Estate</td>
<td>Gift</td>
<td>Medical School</td>
</tr>
<tr>
<td></td>
<td>Lynch Family Fdn</td>
<td>Gift</td>
<td>Academic Health Center</td>
</tr>
<tr>
<td></td>
<td>Mildred L Skogmo Estate</td>
<td>Gift</td>
<td>Medicine and Health</td>
</tr>
<tr>
<td></td>
<td>Anne S Buchanan</td>
<td>Gift</td>
<td>College of Liberal Arts</td>
</tr>
<tr>
<td></td>
<td>Donald and Mary Anne Draayer</td>
<td>Gift/Pledge</td>
<td>College of Education and Human Development, Minnesota Landscape Arboretum</td>
</tr>
<tr>
<td></td>
<td>Leon S Robertson</td>
<td>Gift</td>
<td>School of Public Health</td>
</tr>
<tr>
<td></td>
<td>Joy J Lindsay and Roy Martin Jr</td>
<td>Gift</td>
<td>Carlson School of Management</td>
</tr>
<tr>
<td></td>
<td>Berger Transfer and Storage Inc</td>
<td>Gift</td>
<td>Intercollegiate Athletics</td>
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<tr>
<td></td>
<td>Young America Corp</td>
<td>Gift</td>
<td>Carlson School of Management</td>
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<tr>
<td></td>
<td>Rick Bock Fund of the Mpls Fdn</td>
<td>Gift</td>
<td>Academic Health Center</td>
</tr>
<tr>
<td></td>
<td>Richard W and Jean Illsey Clarke Fund-Mpls Fdn</td>
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<td>College of Science and Engineering</td>
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<tr>
<td></td>
<td>Hope in Grace</td>
<td>Gift</td>
<td>Medical School, Academic Health Center</td>
</tr>
<tr>
<td></td>
<td>Gordon R Johnson Endowment Fund-Mpls Fdn</td>
<td>Gift</td>
<td>Intercollegiate Athletics, Medical School</td>
</tr>
<tr>
<td></td>
<td>Kathleen M and Stephen J Roland</td>
<td>Gift</td>
<td>Scholarships</td>
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<td></td>
<td>James and Charlene Nelson</td>
<td>Gift</td>
<td>University of Minnesota Morris</td>
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<tr>
<td></td>
<td>Helen S Henton Trust</td>
<td>Gift</td>
<td>Unrestricted</td>
</tr>
<tr>
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<td>ALS Assn MN/ND/SD Chapter</td>
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<td>Medical School</td>
</tr>
<tr>
<td></td>
<td>Alva W Emerson</td>
<td>Pledge</td>
<td>Academic Health Center</td>
</tr>
<tr>
<td></td>
<td>Bruce O Karpe</td>
<td>Gift</td>
<td>Academic Health Center</td>
</tr>
<tr>
<td></td>
<td>Dacotah Bank</td>
<td>Pledge</td>
<td>University of Minnesota Morris</td>
</tr>
<tr>
<td></td>
<td>David N Holtze</td>
<td>Gift</td>
<td>Carlson School of Management</td>
</tr>
</tbody>
</table>
$25,000 - $50,000
Donald and Marie Roberts Charitable Fdn  Gift  College of Veterinary Medicine
Ernst and Young US LLP  Pledge  Carlson School of Management
Gerald and Patrice Halbach Charitable Fund  Gift  College of Liberal Arts
Hans I and Kathy Jorgensen  Gift  College of Veterinary Medicine
John C MacMillan  Gift  Minnesota Landscape Arboretum
Kimberly-Clark Corp  Gift  College of Science and Engineering
Mark T and Margaret M Bakko  Pledge  Carlson School of Management
Michael and Tamara Hoffman Charitable Fund-Fidelity  Gift  Carlson School of Management
Oren and Sharron Steinfeldt Fdn  Gift  Libraries
Wayne F Shovelin  Pledge  School of Public Health
WEM Fdn  Gift  Minnesota Landscape Arboretum

$10,000 - $25,000
Dennis L and Lois Maki  Pledge  University of Minnesota Duluth
Martin J and Kathryn T Leestma  Gift  Scholarships
David E Feinberg  Gift  College of Science and Engineering
Paparella Family Fdn  Gift  Medical School
ExxonMobil Fdn  Pledge  College of Science and Engineering
Richard A Skok Estate  Gift  College of Food, Agricultural and Natural Resource Sciences
Dennis D Erickson  Gift  University of Minnesota Duluth
James H and Janelle House  Gift  Medical School
Alice M O'Brien Fdn  Gift  College of Science and Engineering
Grace Upon Grace Mooty Family Fdn  Gift  Law School
Cornelius W Wiens  Gift  Medical School, School of Nursing
Donna M Carr Estate  Gift  College of Liberal Arts
Dow International Finance Sarl  Gift  College of Science and Engineering, College of Food, Agricultural and Natural Resource Sciences, University of Minnesota Extension

George Family Fdn  Gift  Humphrey School of Public Affairs
Juliana Rupert  Gift  University of Minnesota Morris
Michael F Roman  Gift  Carlson School of Management
Midwest Food Products Assn  Gift  College of Food, Agricultural and Natural Resource Sciences
Pipestone Holdings LLC  Gift  College of Veterinary Medicine
Raymond K Johnson  Gift  University of Minnesota Crookston
Richard A and Judi Huempfner  Gift  College of Biological Sciences
Robert W Page  Gift  College of Veterinary Medicine
## $10,000 - $25,000

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Allen R Arvig  Gift  Intercollegiate Athletics
Anonymous  Gift  College of Veterinary Medicine
Bay Lake Improvement Assn  Gift  College of Food, Agricultural and Natural Resource Sciences
Bennett and Sharon Morgan Fund-Fidelity Charitable  Gift  Carlson School of Management
Bill and Barbara Pearce Fund-Mpls Fdn  Gift  School of Nursing
Bryan M Walters  Gift  Intercollegiate Athletics
Buuck Family Fdn  Gift  Minnesota Landscape Arboretum
Charles H Gauck  Pledge  Law School
Craig R and Robin J Dahl  Gift  Academic Health Center
Delores E Isaacscon  Gift  Minnesota Landscape Arboretum
Donald M and Lesly M Nicholson  Gift  Carlson School of Management
Donaldson Co Inc  Gift  Carlson School of Management
Eastman Fdn  Gift  College of Science and Engineering
Ellison Family Charitable Gift Fund-Cambridge Charitable  Gift  Minnesota Landscape Arboretum
Evans E Connelly Jr  Gift  Academic Health Center
Henry H Balfour Jr and Carol L Balfour  Gift  Medical School
Hepworth Family Giving Fund at Fidelity  Gift  College of Veterinary Medicine
Hoeft Family Fund-Mpls Fdn  Gift  Minnesota Landscape Arboretum
James A Lawrence  Gift  Carlson School of Management
Jean L Lynch  Gift  Medical School
Joel Kunza  Gift  Academic Health Center
John J Hunt Jr and Rita M Hunt  Gift  University of Minnesota Rochester
John W Miller  Gift  School of Nursing
Judith and Edward Bergauer  Gift  College of Education and Human Development
Judith H and Robert L Duffy Fund-Fidelity Charitable  Gift  Carlson School of Management
Kelli A and Doug Schieffer  Gift  College of Education and Human Development
Laura E Bethke  Pledge  Carlson School of Management
Laura J and Benjamin G Cooper  Gift  Law School
Lawrence Family Fdn  Gift  Carlson School of Management
Lazard Freres and Co LLC  Gift  Carlson School of Management
Leland T Lynch and Terry Saario Fund-Mpls Fdn  Gift  College of Liberal Arts
Linda J and John W Cogdill  Gift  College of Liberal Arts
Lloyd and Diane Fehr  Gift  College of Food, Agricultural and Natural Resource Sciences
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Roy H Whitney  
Gift  
Minnesota Landscape Arboretum

Greater Twin Cities United Way  
Gift  
Unrestricted

Bame Fdn  
Gift  
Academic Health Center

Ellen M Blank  
Gift  
Intercollegiate Athletics

Jennifer A Nicklay  
Gift  
College of Food, Agricultural and Natural Resource Sciences

Robert L and Barbara J Peterson Fund  
Gift  
College of Science and Engineering, University of Minnesota Crookston

S Edward Wagner  
Gift  
Minnesota Landscape Arboretum

Ken W and Suane B Hallberg  
Gift  
Medical School

Women's Fdn of Minnesota  
Gift  
Medical School

David J and Patricia S Borchert  
Gift  
College of Liberal Arts

Deborah Johnston  
Gift  
Academic Health Center

The Hubbard Broadcasting Fdn  
Gift  
Medical School

3M Fdn Inc  
Pledge  
Various Colleges

Access Financial Services Inc  
Gift  
Academic Health Center, Medical School

Art and Martha Kaemmer Fund-HRK Fdn  
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College of Food, Agricultural and Natural Resource Sciences

BASF Corp  
Gift  
College of Food, Agricultural and Natural Resource Sciences

Benjamin D Fagerlie  
Gift  
Intercollegiate Athletics

Betty J Hahn  
Gift  
Minnesota Landscape Arboretum

Brian J Osberg and Jean Marie Hamilton  
Gift  
School of Public Health

Camille F Kundel and Ni Tran  
Gift  
College of Pharmacy

Carthage Veterinary Service LTD  
Gift  
College of Veterinary Medicine

Cris Nielsen  
Gift  
Intercollegiate Athletics

Demeter Services Veterinaires Inc  
Gift  
College of Veterinary Medicine

Holden Farms Inc  
Gift  
College of Veterinary Medicine

Lauren C Stringer  
Gift  
Libraries

Lucas Charitable Account-Schwab Charitable  
Gift  
School of Nursing

Mary P Kenny  
Gift  
Medical School

Maslon LLP  
Gift  
Medical School

Pipestone Veterinary Services  
Gift  
College of Veterinary Medicine

Sherry A Oleson  
Gift  
College of Food, Agricultural and Natural Resource Sciences

Stephanie C Van D'Elden  
Gift  
Libraries, Weisman Art Museum

Swine Vet Center PA  
Gift  
College of Veterinary Medicine

Boston Scientific Employee Giving  
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M Charles Swope  
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Joseph A Bernard  
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Academic Health Center

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$5,000 - $10,000

Mary Sue Vorbrich Gift Academic Health Center
Michael T and Catherine S Lee Gift Intercollegiate Athletics
Minnesota Corn Growers Assn Gift College of Food, Agricultural and Natural Resource Sciences

Montana Stewart Gift Intercollegiate Athletics
National Hockey League Fdn Gift Academic Health Center
National Student Leadership Fdn Gift Law School
Patricia S Keairnes Gift Medical School
Patrick G Bassett Gift Minnesota Landscape Arboretum
Paul E Rockne Gift Law School
Paul J Jungquist Gift Carlson School of Management
Peter and Lisa Janzen Fund-American Endowment Fdn Gift Carlson School of Management

Philip L Gardner Gift Medical School
Phyllis H Sherman Gift College of Veterinary Medicine
Randy R Simonson Pledge College of Veterinary Medicine
Rebecca A Urbanski Gift College of Veterinary Medicine
Rhonda Fleming Hayes Gift Minnesota Landscape Arboretum
Richard L Sandberg Gift University of Minnesota Morris
RJW Fdn Gift Intercollegiate Athletics
Robert A Rosenbaum Gift Academic Health Center
Robert L Stableski Fam Charitable Fnd-Schwab Charitable Gift Global Programs and Strategy Alliance, College of Liberal Arts
Rodney A and Betty Hestekin Gift Academic Health Center
Ronald A Malcolm Gift Intercollegiate Athletics
Rosario A Perrelli Gift Academic Health Center
Sally B Jorgensen Gift College of Biological Sciences
Sally S Mainquist Gift Academic Health Center
Sandra S Larson Gift College of Food, Agricultural and Natural Resource Sciences

Sara E Boehans Gift Intercollegiate Athletics
Shannon Werb Gift Academic Health Center
Sharon Stewart Reeves Gift University of Minnesota Morris
Sorensen Family Trust Gift College of Veterinary Medicine
Southern Minnesota Wine Growers Alliance Gift College of Food, Agricultural and Natural Resource Sciences

Steven L Kirchner Gift Minnesota Landscape Arboretum
Sundar Ramamurthy Gift College of Science and Engineering
Susan E Jackson Gift University of Minnesota Morris
Tashjian-Savik Charitable Gift Fund-Fidelity Charitable Gift Minnesota Landscape Arboretum
The Boom Lab Gift Carlson School of Management
The Joseph Durda Fdn Gift Intercollegiate Athletics
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<td>Gift</td>
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**MEETING OF THE BOARD OF REGENTS**
**GIFTS TO BENEFIT THE UNIVERSITY OF MINNESOTA**
**SUMMARY REPORT**

**February 2019 Regents Meeting**

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<th>December</th>
<th>Year-to-Date</th>
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<td>Total Gift Activity</td>
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*Detail on gifts of $5,000 and over is attached.

Pledges are recorded when they are received. To avoid double reporting, any receipts which are payments on pledges are excluded from the report amount.
## Gifts to benefit the University of Minnesota

### Gifts received in December 2018

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<thead>
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<th>Donor</th>
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<td>Ecolab Fdn</td>
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<td>Otto Bremer Trust</td>
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<td>August Droege</td>
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<td>Gary M Tushie</td>
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<td>College of Design</td>
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<tr>
<td>Charles and Ellora Alliss Educational Fdn</td>
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<td>Scholarships</td>
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<td>David M and Janis Larson Fdn</td>
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<td>College of Liberal Arts</td>
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<tr>
<td>Richard and Beverly Fink Family Fund-Fidelity Charitable</td>
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### $250,000 - $500,000

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<td>Richard P Burke Estate</td>
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<td>Helen Lindsay Family Fdn</td>
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<td>Beverly N Grossman</td>
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<td>Lotus Charitable Fund-Schwab Charitable</td>
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### $100,000 - $250,000

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Karl and Roxann R Podratz Gift Intercollegiate Athletics
Minnesota Corn Growers Assn Gift University of Minnesota Extension
James J Luby and Emily E Hoover Gift College of Food, Agricultural and Natural Resource Sciences
James G Boulger Sr Gift Medical School
Joseph F Connor Gift College of Veterinary Medicine
Todd A and Sarah J Salava Gift Medical School, Academic Health Center
James M Gearns Pledge University of Minnesota Duluth
Jason R and Sara E Langworthy Gift College of Liberal Arts
Betty Holmen Greene and John R Greene Pledge University of Minnesota Duluth

Andrew O Skaar Estate Gift University of Minnesota Crookston
Anonymous Gift College of Liberal Arts
Bergren Family Fdn of the Mpls Fdn Gift Minnesota Landscape Arboretum
Bernard D Paul Gift Academic Health Center, College of Science and Engineering
Bruce G Paddock Gift College of Pharmacy
Charlotte H and Lanny D Schmidt Gift College of Science and Engineering
Cornerstone Parking Group Inc Pledge Academic Health Center
David R Johanson Pledge Law School
Gary W Cohen and Margaret Macneale Pledge Intercollegiate Athletics
Karen M Silvis Gift Carlson School of Management
Lee A Jones Gift Carlson School of Management
Medica Fdn Pledge Medical School
Randall B Nielsen Gift University of Minnesota Crookston
Robert and Jill DeMaster Gift College of Science and Engineering
Robert C and Beverly Sundahl Pledge College of Science and Engineering
Robert W Hubbard Pledge College of Science and Engineering
Susan and Richard Anderson Family Fund Gift Minnesota Landscape Arboretum

The Shepherd Charitable Trust Gift Medical School

$25,000 - $50,000
Jolife AB Gift Medical School
Carole J Persson Estate Gift Minnesota Landscape Arboretum
Margaret Harvey Schering Trust-Cancer Gift Academic Health Center Research
Philip J Ebeling Gift Academic Health Center
Phyllis B Branin Gift College of Science and Engineering
Richard and Carole Hebert Family Fdn Gift University of Minnesota Crookston
Steven G Hentges Gift College of Science and Engineering
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Franck and Katina Gougeon

Chainbreaker
Mightycase Charitable Fdn
Boston Scientific Corp

Boston Scientific Fdn Inc
Minnesota Management and Budget
The Sauer Family Fdn
Todd Jelen
Torgerson Family Fdn
Priscilla J Hawkinson
Michael E and Sarah K Giga
Medica

Eugene G and Margery A Philipson
Allan L Apter
K K Burhardt and A L Spas Fund-Ayco
Charitable Fdn
Terry P and Valerie C O'Brien
Steven J Thomas Jr
Wheeler/Chutich Charitable Fund-R James Charitable Endowed Fund
Arlene E Carney
Darin M Hanson
Anonymous
B and H Way Fdn
Bradley C Anderson

Camfil Farr Inc
Chad D Gednalske
Daniel Bell and Carolyn Rusch
Diane and Timothy Madden
Donald L and Patricia A Garofalo
Gail N Anderson

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Medical School College of Science and Engineering Academic Health Center, Medical School Academic Health Center Various Colleges Undesignated, College of Food, Agricultural and Natural Resource Sciences College of Food, Agricultural and Natural Resource Sciences Carlson School of Management Medical School, College of Education and Human Development Intercollegiate Athletics Carlson School of Management School of Nursing Intercollegiate Athletics Business and Community Economic Development College of Science and Engineering University of Minnesota Duluth College of Science and Engineering, Global Programs and Strategy Alliance Law School Scholarships Intercollegiate Athletics College of Liberal Arts University of Minnesota Duluth Academic Health Center Center for Spirituality and Healing College of Food, Agricultural and Natural Resource Sciences College of Veterinary Medicine Intercollegiate Athletics Academic Health Center College of Education and Human Development Medical School College of Education and Human Development
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Fund
Emerson Charitable Trust  Gift  College of Science and Engineering, Academic Health Center
Greater Twin Cities United Way  Gift  Unrestricted
James D Rogers  Gift  College of Veterinary Medicine
Patrick L and Phuong K Bajari  Gift  College of Liberal Arts
Dusty Mairs  Gift  Medical School
Edward B and Betty L Radcliffe  Gift  College of Food, Agricultural and Natural Resource Sciences
John C and Jeralyn R Anderson  Gift  Undesignated
Jon A Carlson  Gift  College of Science and Engineering, Academic Health Center
Mary Lou Sundet Belford  Gift  College of Veterinary Medicine
Siobahn M Morgan  Gift  Intercollegiate Athletics
Thomas A and Mona C Dougherty  Gift  College of Education and Human Development, Carlson School of Management, Medical School
Visa International  Pledge  Carlson School of Management, Intercollegiate Athletics
Janet L and Gordon V Johnson  Gift  College of Design
Aldrich Family Fund of the Mpls Fdn  Gift  College of Veterinary Medicine, School of Nursing
Brett W Rasmussen  Gift  Intercollegiate Athletics
Cooper Family Fdn Agency  Gift  Minnesota Landscape Arboretum
Ewing Marion Kauffman Fdn  Pledge  Carlson School of Management
Lucky Seven MN Fdn  Gift  Minnesota Landscape Arboretum
Maynard Howe and Maureen Pechacek  Gift  Carlson School of Management
Meuers-Rau Family Charitable Gift Fund  Gift  Law School
Olga B Hart Education Fdn  Gift  Graduate School
Ross W Bartels and Brenda J Weigel  Gift  Medical School
Sando Fdn  Gift  College of Food, Agricultural and Natural Resource Sciences
Sharon and Fritz Johnson  Gift  College of Science and Engineering
Richard J Sveum and Jennifer Olson  Gift  Libraries
American Veterinary Medical Fdn  Gift  College of Veterinary Medicine
Barbara K Veath  Gift  School of Dentistry
Daniel T Grady  Gift  Intercollegiate Athletics
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Gift Undesignated
Lorraine B Gresser
Gift Medical School
Louise C Rappe
Gift Academic Health Center
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Board of Regents  

AGENDA ITEM: Report of the Faculty Consultative Committee

☐ Review  ☐ Review + Action  ☐ Action  ☒ Discussion

☒ This is a report required by Board policy.

PRESENTERS: Amy Pittenger, Professor, College of Pharmacy and Chair, Faculty Consultative Committee

PURPOSE & KEY POINTS

The purpose of this item is to update the Board of Regents on the goals and accomplishments of the Faculty Consultative Committee.

BACKGROUND INFORMATION

The Chair of the Faculty Consultative Committee provides updates twice a year. The last update was at the June 2018 meeting.
FCC Chair Report to Board of Regents
February 8, 2019

I am Professor Amy Pittenger, the new 2019-2020 chair of the Faculty and Senate Consultative Committees (FCC/SCC), stepping in early because previous FCC Chair Joe Konstan accepted an associate dean for research position within the College of Science and Engineering. This report is a delayed and abbreviated December report, since the December Board of Regents’ meetings were devoted to the presidential search candidate selection and interview.

I’ve had a chance to meet and work with some, but not all of you, so I’ll briefly provide a bit of background about myself. I am a pharmacist and a faculty member in the College of Pharmacy. I started my education on the University of Minnesota Morris campus and am proud to say that I have earned three degrees from the University of Minnesota.

The FCC leadership appreciates the Board’s openness to discussion. In the fall, Professor Konstan and I met with new Regent Simonson as well as Regents Cohen and Anderson. This winter and spring, Professor Phil Buhlmann, the newly elected FCC vice chair from the College of Science and Engineering, and I will follow up with the rest of you.

In addition to Professor Buhlmann being elected FCC vice chair, Professor Rob Blair, a former elected member of FCC, was recently appointed as the new faculty legislative liaison, replacing Professor Michael Oakes who was named associate vice president for research in the Office of the Vice President for Research. Professor Blair will be working closely with returning faculty legislative liaison Professor Donna Spannaus-Martin as well as staff from the Office of Government and Community Relations to convey faculty perspectives to legislators with respect to legislation and potential legislation affecting the University.

Fall 2018 was a busy and exciting time in governance. Given the abbreviated nature of this report, I'll only mention a few selected topics the FCC identified at its annual retreat in August. This report does not describe all of the efforts of the FCC.

Non-Tenure Track Faculty. We devoted a major portion of our efforts this year exploring and better understanding the different types of faculty classifications beyond the tenure-track category. Vice Provost for Faculty and Academic Affairs Rebecca Ropers-Huilman attended this portion of the retreat, and we continue to work with her and her team to understand these categories. This was also a half-day discussion topic at the Big Ten Academic Alliance (BTAA) Academic Governance Conference that I attended in October. While particulars vary across the Big Ten, the collective discussion was informative, productive and relevant to the FCC’s discussions on this topic.

Presidential Search. The search for the 17th president of the University of Minnesota has dominated the attention of the FCC and I was honored to serve on the Presidential Search Advisory Committee. As has been stated previously by many on the search committee, it was a very positive experience, and I want to acknowledge the exemplary leadership of Regent Omari and co-chair Dean Laura Bloomberg; they are the primary reason the committee functioned so well and had a successful outcome. It was a unique opportunity for the Regents, faculty, students, staff and community members to work together towards a common goal and I’m so grateful I was able to be a part of the effort.
Liberal Education and Prevention of Sexual Misconduct Updates. Given Professor Konstan provided an update on the FCC’s efforts related to the Twin Cities liberal education curriculum and the President’s Initiative to Prevent Sexual Misconduct at the December 2017 Board of Regents meeting, I will simply note that the FCC continues to be actively engaged in both of these initiatives and I will give more detailed updates at the June meeting.

I will finish my report by shining a spotlight on two of our amazing faculty members; a strategy that past FCC Chair Joe Konstan began with his report in June 2018, which I plan to continue in my future reports.

Faculty Spotlights. I will start with Dr. Katy Kozhimannil, associate professor, School of Public Health - Division of Health Policy and Management, and director of the Rural Health Research Center, which is focused on improving the lives of rural residents and families. Dr. Kozhimannil is from Greater Minnesota and also a University of Minnesota alum.

One example of Dr. Kozhimannil’s work I want to highlight is her work addressing rural maternity access. Her motivation to address the maternity needs of women in rural areas began with watching her grandmother grieve the loss of her sister from a likely preventable death associated with childbirth. She wanted to understand the problem so successful solutions could be implemented to prevent the pain her family endured. Last year, Dr. Kozhimannil documented that more than half of all rural counties in the United States had no place for women to give birth. Her research on this topic has been published in top journals, including Health Affairs and Journal of the American Medical Association (JAMA), and covered extensively in the national media, e.g., New York Times, Wall Street Journal, and NBC Nightly News. Dr. Kozhimannil’s research on rural maternity access was also featured at a U.S. Senate briefing in 2018, and her work was influential in the ultimate passage of the Improving Access to Maternity Care Act, a new law that will help address the lack of maternity services for rural residents across the nation.

The next faculty member I will highlight is Dr. Sameer Abufarkeh, associate professor, Department of Math, Science and Technology at the University of Minnesota Crookston. Dr. Abufarkeh’s expertise is in the fields of software engineering and information technology management, and his research area is cybersecurity.

Dr. Abufarkeh’s research focuses on understanding the phishing victim profile and how to use this information to keep people and systems safe from cyber attacks. Dr. Abufarkeh explains that the first line of defense in protecting people from phishing attacks is understanding the dynamics of phishing and the psychology of both the attacker and the victim, and analyzing users’ decision-making strategies in reaction to phishing attacks. His work is unique because it does not focus on cybersecurity tools, but rather the profiles of cyber attack victims given perpetrators of cyber attacks use psychological vulnerabilities to trick people into providing information - crimes that lead to several billion dollars of lost revenue each year. Dr. Abufarkeh and his multi-disciplinary team develop and test new data mining-based tools and techniques that can be used to protect against phishing attacks. Dr. Abufarkeh also has undergraduate students on his research team, which enhances the educational experience of the University of Minnesota Crookston students lucky enough to get to contribute to this important work. Dr. Abufarkeh’s work is helping to keep the people and systems of Minnesota and the nation safer from
phishing attacks and is providing valuable research experiences to the future software engineers and IT professionals of our state.

Our faculty are making Minnesota, the nation, and the world a better and safer place on many fronts and are also providing excellent learning experiences for students, (undergraduate, graduate, and professional) in the process. We would be happy to facilitate a meeting so you can get to know our faculty and learn about their research in whatever format would be best. Please let me know if you are interested in pursuing this further.

Finally, I want to publicly thank Professor Konstan for his extensive service, over 20 years in faculty governance, and to share with you how much I enjoyed working with him when I was FCC vice chair. I also want to acknowledge all of the excellent support from the University Senate staff, but specifically Ms. Renee Dempsey. Additionally, I want to recognize all the students, staff, and faculty involved in governance who volunteer their time and efforts to make the University of Minnesota’s governance model, the robust model it is. I also want to thank you, the Board of Regents, the president, provost, and University administration for your open and engaged consultation and commitment to shared governance as a value and a process. Attending the Big Ten Academic Alliance conference and participating on the Presidential Search Advisory Committee has further confirmed to me how lucky we are to have a long history of robust shared governance – it is at the center of why we are such an amazing institution.
FCC Chair’s Report

Amy L. Pittenger, FCC Chair

February 8, 2019
Overview

- Introduction
- Status updates
- Meet two additional faculty
- Question and Answer
Presidential Search and Transition

• Positive search process
• Optimism and excitement for transition
Katy Kozhimannil

• Assoc. Professor, School of Public Health, Division of Health Policy and Management
• Director of the Rural Health Research Center
  – UMTC Alum
  – Grew up in greater Minnesota
  – Spanish and International Relations
• Addressing the lack of maternity services for rural residents across the nation
Sameer Abufardeh

- Assoc. Professor Department of Math, Science, and Technology UMC
- helping to keep the people and systems of Minnesota and the nation safer from phishing attacks
- providing valuable research experiences to the future software engineers and IT professionals of our state.
Key Points

1. Faculty are a Huge Asset to the State
2. We Cherish What Differentiates Us
AGENDA ITEM: 2018 University Performance and Accountability Report

☐ Review  ☐ Review + Action  ☑ Action  ☐ Discussion

☑ This is a report required by Board policy.

PRESENTERS: Robert B. McMaster, Acting Executive Vice President and Provost

PURPOSE & KEY POINTS

The purpose of this item is action on the 2018 University Performance and Accountability Report. Throughout the year, this annual report is used by the Board of Regents and others as a reference guide to the University's progress toward strategic goals. This year's report continues to include the University Progress Card to highlight key measures that demonstrate the University's success in remaining accessible, attracting outstanding students, offering a great student experience, graduating students prepared for success, conducting breakthrough research, engaging with communities, and being a productive and efficient organization.

A highlights document that provides key points from the report is included in the docket.

BACKGROUND INFORMATION

The Board reviewed the report at its December 2018 meeting.

In 2000, the Board approved the creation of the University Accountability Report. In its resolution, the Board noted that it “...holds itself accountable to the public for accomplishing the mission of the University” and that the report was to become the principal annual documentation of that accountability. The first report was published in 2001. In 2014, the Board revised the timetable for the production of the report to each December. In 2018, the Board changed the name to the University Performance and Accountability Report. The 2018 edition is the 17th edition produced for the Board of Regents.

PRESIDENT'S RECOMMENDATION

The President recommends approval of the resolution related to the University Performance and Accountability Report.
WHEREAS, the president of the University and the Board of Regents (Board) are entrusted with the responsibility in their oversight of the University to be good stewards of the public interest, resources, and facilities; and

WHEREAS, it is the responsibility of the Board, in cooperation with the president, to identify and analyze the critical issues and challenges confronting the University; assess its operations; and evaluate the performance and success of its colleges and campuses; and

WHEREAS, it was resolved that the University Performance and Accountability Report (Report) shall publicly demonstrate the University’s accountability for progress in reaching its stated goals and objectives; link planning, performance evaluation, and resource allocation at the system and campus/college level; illustrate and analyzes longitudinal trends in key areas; provide a means for comparisons with peer institutions; identify areas for continued work; and include progress made in achieving the goals articulated in the University Progress Card; and

WHEREAS, on the recommendation of the acting executive vice president and provost, the president of the University requests the Board accept the 2018 Report; and

NOW, THEREFORE, BE IT RESOLVED that the Board accepts the 2018 Report as submitted by the administration.
Your University of Minnesota

Key Points from the 2018 Performance and Accountability Report
For more details, please see the full report at z.umn.edu/accountabilityreport.

$90 million
in administrative cost reductions over six years

Efficient and productive
We continue to save money and our more than 26,000 employees statewide are driven to educate, research, and serve.

- The University will reach its six-year goal of $90 million in administrative cost reductions in fiscal year 2019 (p. 112).
- Results of the 2017 employee engagement survey show very high levels of faculty and staff commitment and dedication that exceed the levels of many top-performing companies worldwide (p. 105).
- The University refinanced debt which will save $28.6 million in interest costs over the remaining life of the refinanced bonds (p. 111).
- The University has developed several enhanced tools to analyze and monitor financial activity (p. 112).

A focus on student success
Our students are prepared to succeed in their future careers.

- Over the past decade, graduation rates on all campuses have been stable or improved, with the Twin Cities four-year rate surpassing 70% for the first time (pp. 39, 46, 51, 58, 61).
- Recent surveys show that 96 percent of Duluth graduates (p. 45) and 95 percent of Morris graduates (p. 50) were employed or in graduate/professional school one year after graduation.
- Crookston’s 16:1 student-to-faculty ratio allows students greater access and opportunity to be involved in faculty-student research and creative works projects (p. 56).
- Students of color on the Rochester campus succeed at the same or greater rates than their peers (p. 60).
- The University is the state’s primary source of well-educated professionals for many industries, granting in 2018 more than 1,100 health professional degrees, over 200 legal-related degrees, over 250 master of education teaching degrees, and more than 450 M.B.A. degrees (pp. 77–78).

16:1
ratio of students-to-faculty at UMC

71.1%
Twin Cities campus four-year graduation rate
Providing value and affordability
We strive to provide a quality education while keeping student costs down.

- The total amount of gift aid provided to undergraduates systemwide has increased, while the percentage of students who graduate with student debt has decreased. For those who do borrow, the median loan debt amounts have also decreased (p. 32).

- The University Promise (or “U Promise”) Scholarship helps more than 13,000 low- and middle-income Minnesota undergraduates systemwide (p. 35).

- More than half of Duluth undergraduates received a University scholarship in fiscal year 2017 (p. 41).

Something for every student
We offer all of our students an incredible experience.

- Twin Cities undergraduates have the opportunity to enroll in Grand Challenge Curriculum courses, which bring a solution-driven, interdisciplinary approach to important global issues (p. 37).

- Between 150 and 200 Duluth students participate each year in the Undergraduate Research Opportunity Program, and several departments have nationally recognized summer undergraduate research programs (p. 44).

- Morris students lead the Morris Model, a plan to build rural self-sufficiency and reliance (p. 18).

- Crookston emphasizes career readiness, with a required internship that gives all undergraduates real-world, professional experience (p. 57).

- Each student at Rochester is guided by a success coach (p. 60).

- A record number of entering Twin Cities graduate students of color and students from underrepresented backgrounds took part in the seven-week Summer Institute, designed to help create a welcoming and inclusive climate on campus (pg. 65).

- In fall 2018, 21 percent of Morris students are American Indian—the highest percentage at a four-year, non-tribal institution in the Upper Midwest. Each eligible student receives a tuition waiver tied to the campus’s history as an American Indian boarding school (p. 48).
21% of UMM students are American Indian.

Dual enrollment agreements with Red Lake Nation College and Northland Community and Technical College provide opportunities for students in the Crookston region to earn four-year degrees (p. 53).

Total funding for graduate assistants, fellows, and trainees is up by more than 12 percent over the past five years (p. 65).

The Master of Accountancy Program offers students 10-week, full-time paid internships that fund part of the tuition cost of the degree (p. 74).

Outstanding students

Our campuses attract students who are second to none in their motivation and preparation for success.

- The average ACT composite scores for the incoming Twin Cities class have improved significantly over the past 10 years, from 26.2 to 28.4. New fall 2018 honors students showed an average ACT composite score of 33.1 (pp. 36–37).

- Over 85 percent of Duluth’s undergraduate students are in-state, with half from the Twin Cities metro area and half from greater Minnesota (p. 41).

- In 2017 and 2018, seven Morris students were awarded Fulbright scholarships, one a Udall scholarship, and one a Boren scholarship (p. 49).

- Seventy-two percent of new students surveyed in fall 2018 indicated that attending Crookston was their first choice (p. 55).

- In 2017–18, 28 new graduate students were awarded National Science Foundation Fellowships and one graduate student received a CIC/Smithsonian Fellowship. In 2017, the University was named a top Fulbright producer (p. 32).

- The most recent entering class of J.D. candidates had a median LSAT at the 90th percentile nationally (p. 73).
Community partners

Our faculty, staff, and students work in and with MN communities.

- Twin Cities students in the Community Engagement Scholars Program each provide at least 400 hours of community service and produce a capstone project with a community organization (pp. 37–38).

- Morris partners with 80 area agencies and organizations to enrich student learning and meet community needs (p. 50).

- Duluth’s Center for Economic Development works to strengthen the viability of the region (p. 98).

- The Phillips Neighborhood Clinic is a free, student-run clinic where each year hundreds of students from audiology, dentistry, healthcare administration, law, medical lab science, medicine, nursing nutrition, occupational therapy, pharmacy, physical therapy, and social work provide free health services to underserved patients in the Twin Cities (p. 75).

- The Robert J. Jones Urban Research and Outreach-Engagement Center completed 61 research projects involving over 100 community partners, almost 200 University faculty and staff members, and 349 students (p. 102).

Breakthrough research

We conduct research that moves Minnesota, and the nation, forward.

- The University ranks in the top 10 among U.S. public universities in research spending and generates an estimated $8.6 billion annual economic impact for Minnesota (p. 85).

- In 2017, MnDRIVE researchers disclosed more than 70 inventions for patents or licensing and have

- The Minnesota Innovation Partnerships (MN-IP) program, designed to streamline University-industry partnerships, has led to 414 agreements with 233 unique companies since its inception (p. 90).

- Extension’s Regional Sustainable Development Partnerships brought together nearly 350 partners across the state on more than 120 community-driven sustainability projects (p. 99).

- Twin Cities employees raised $1.36 million as part of the Community Fund Drive (CFD), which benefits seven nonprofit federations representing nearly 500 organizations. Since 1995, CFD has raised more than $24 million to benefit the community (p. 109).
The University Progress Card drives performance and supports oversight of specific aspirational goals set by the Board of Regents and the administration.

Gold measures represent data sources that are well understood and agreed upon, where there is the ability to set a quantifiable goal over a reasonable time period, and where the University can take action to influence the results. Maroon measures are important trends and indicators, but the goals may be directional in nature or the measure may only need to be monitored, and University action alone is not likely to significantly influence the measure.

Progress Card measures are connected to and more deeply informed by the University’s Plan, Performance and Accountability Report.

### Gold Measures

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<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>Goal/Year</th>
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<td>4-year graduation rate</td>
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<td>2011</td>
<td>Crookston</td>
<td>44.5%</td>
<td>46.5%</td>
<td>46.2%</td>
<td>45.2%</td>
<td>45%/2017 cohort</td>
<td>57–58</td>
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<td></td>
<td>Duluth</td>
<td>39.0%</td>
<td>38.9%</td>
<td>40.9%</td>
<td>46.6%</td>
<td>45%/2017 cohort</td>
<td>45–46</td>
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<td>Morris</td>
<td>52.6%</td>
<td>54.3%</td>
<td>48.9%</td>
<td>49.1%</td>
<td>60%/2017 cohort</td>
<td>51</td>
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<td>Rochester</td>
<td>63.1%</td>
<td>56.4%</td>
<td>60.0%</td>
<td>55.4%</td>
<td>60%/2017 cohort</td>
<td>61</td>
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<td>Twin Cities</td>
<td>63.3%</td>
<td>65.2%</td>
<td>68.4%</td>
<td>71.1%</td>
<td>65%/2017 cohort</td>
<td>38–39</td>
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<td>2012</td>
<td>6-year graduation rate</td>
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<td>2009</td>
<td>Crookston</td>
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<td>56.7%</td>
<td>58.9%</td>
<td>53.0%</td>
<td>60%/2015 cohort</td>
<td>57–58</td>
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<td>Duluth</td>
<td>66.5%</td>
<td>64.7%</td>
<td>65.1%</td>
<td>64.9%</td>
<td>68%/2015 cohort</td>
<td>45–46</td>
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<td>Morris</td>
<td>68.1%</td>
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<td>64.1%</td>
<td>69.9%</td>
<td>80%/2015 cohort</td>
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<td>Rochester</td>
<td>60.0%</td>
<td>62.0%</td>
<td>69.4%</td>
<td>66.4%</td>
<td>60%/2015 cohort</td>
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<td>Twin Cities</td>
<td>77.6%</td>
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<td>82%/2015 cohort</td>
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<td>2011</td>
<td>4-year graduation rate of Pell-eligible students</td>
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<td>System</td>
<td>45.4%</td>
<td>47.4%</td>
<td>50.9%</td>
<td>53.6%</td>
<td>54%/2017 cohort</td>
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<td>2015–16</td>
<td>Freshman average ACT</td>
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<td>$246M</td>
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<td>$275M/2021</td>
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<td>2016–17</td>
<td>R&amp;D expenditures</td>
<td>Twin Cities</td>
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<td>2017–18</td>
<td>Medical School ranking</td>
<td>Twin Cities/ Duluth</td>
<td>30</td>
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<td>34</td>
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<td>Top 20/2021</td>
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<td>Faculty awards N and (Rank: Public Universities)</td>
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<td>2011–12</td>
<td>Twin Cities</td>
<td>33 (5th)</td>
<td>32 (6th)</td>
<td>26 (8th)</td>
<td>35 (7th)</td>
<td>35+ (Top 10)/2021</td>
<td>106</td>
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<tr>
<td>2013–14</td>
<td>% Participation in Employee Engagement Survey</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2017–18</td>
<td>System</td>
<td>57%</td>
<td>64%</td>
<td>67%</td>
<td>71%</td>
<td>72%/2021</td>
<td>105</td>
</tr>
<tr>
<td>FY2015</td>
<td>FY2016</td>
<td>FY2017</td>
<td>FY2018</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2017–18</td>
<td>Op-Ex—continued progress on $90M</td>
<td>System</td>
<td>$40.4M</td>
<td>$57.8M</td>
<td>$68.4M</td>
<td>$79.1M</td>
<td>$90M/FY19</td>
</tr>
</tbody>
</table>

The University of Minnesota is an equal opportunity educator and employer.
<table>
<thead>
<tr>
<th>Strategic Focus</th>
<th>Campus</th>
<th>Performance Drivers/Outcomes</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>Goal</th>
<th>Page</th>
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<tbody>
<tr>
<td>Undergraduate Education</td>
<td>Twin Cities</td>
<td>Transfer student 3-year graduation rate</td>
<td>61.4%</td>
<td>62.4%</td>
<td>64.6%</td>
<td>63.8%</td>
<td>&gt;65%</td>
<td>36</td>
</tr>
<tr>
<td>Graduate Education</td>
<td>Twin Cities/</td>
<td>Graduate and professional degrees awarded</td>
<td>5,305</td>
<td>5,184</td>
<td>5,372</td>
<td>5,236</td>
<td>&gt;5,250</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Duluth</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Financial Accessibility</td>
<td>System</td>
<td>Median undergraduate debt at graduation</td>
<td>$24,854</td>
<td>$24,776</td>
<td>$24,645</td>
<td>$24,268</td>
<td>Grow no faster than CPI; Correct for federal/state policy changes</td>
<td>32</td>
</tr>
<tr>
<td>Inclusive Success</td>
<td>Twin Cities</td>
<td>Students of color with a favorable sense of belonging on campus (SERU survey)</td>
<td>58.9%</td>
<td>57.3%</td>
<td>52.3%</td>
<td>49.9%</td>
<td>Match non-SOC response (currently 63.1%)</td>
<td>36</td>
</tr>
<tr>
<td>Serving Minnesota Students</td>
<td>System</td>
<td>Percent of incoming new (and all currently enrolled undergraduate) students who are Minnesota high school graduates</td>
<td>71.0% (71.4%)</td>
<td>70.0% (71.0%)</td>
<td>70.6% (71.1%)</td>
<td>69.4% (70.6%)</td>
<td>Maintain historical access</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>System</td>
<td>Percent of Minnesota high school graduates that elect to attend college in Minnesota and enroll at the University as freshmen</td>
<td>16.7%</td>
<td>16.6%</td>
<td>18.8%</td>
<td>19.6%</td>
<td>Maintain historical access</td>
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<tr>
<td>Health Sciences</td>
<td>Twin Cities/Duluth/Rochester</td>
<td>Enrollment in in-demand health science specialities (Nursing, Pharmacy, Dentistry)</td>
<td>2,085</td>
<td>2,072</td>
<td>2,075</td>
<td>2,163</td>
<td>&gt;2,100</td>
<td>78</td>
</tr>
<tr>
<td></td>
<td>Twin Cities/Duluth/Rochester</td>
<td>Total combined fall enrollment in Academic Health Center schools and AHC Center for Allied Health</td>
<td>6,198</td>
<td>6,316</td>
<td>6,176</td>
<td>6,567</td>
<td>&gt;6,350</td>
<td>78</td>
</tr>
<tr>
<td>Research</td>
<td>Twin Cities</td>
<td>National public research ranking</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>9</td>
<td>Maintain top 10</td>
<td>85–86</td>
</tr>
<tr>
<td></td>
<td>System</td>
<td>MN-IP agreements</td>
<td>69</td>
<td>81</td>
<td>72</td>
<td>86</td>
<td>10% annual growth</td>
<td>90</td>
</tr>
<tr>
<td>Land Grant Mission</td>
<td>System</td>
<td>Public service expenditures</td>
<td>$253M</td>
<td>$248M</td>
<td>$258M</td>
<td>$306M</td>
<td>&gt;$245M</td>
<td>95</td>
</tr>
<tr>
<td>Academic Excellence</td>
<td>Twin Cities</td>
<td>Citations per faculty member</td>
<td>126</td>
<td>124</td>
<td>133</td>
<td>n/a</td>
<td>&gt;125</td>
<td>85</td>
</tr>
<tr>
<td></td>
<td>System</td>
<td>National scholarships awarded to students</td>
<td>31</td>
<td>52</td>
<td>75</td>
<td>&gt;80 from 2015–2020</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>Operational Excellence</td>
<td>System</td>
<td>Spending on leadership &amp; oversight vs. mission and mission support (%)</td>
<td>8.4%</td>
<td>8.1%</td>
<td>8.3%</td>
<td>8.2%</td>
<td>Decrease over time</td>
<td>112</td>
</tr>
<tr>
<td></td>
<td>System</td>
<td>GSF in poor or critical condition (facility condition assessment)</td>
<td>7.73M</td>
<td>8.32M</td>
<td>8.43M</td>
<td>8.50M</td>
<td>Decrease over time</td>
<td>113</td>
</tr>
<tr>
<td></td>
<td>System</td>
<td>Sustainability—Metric tons of greenhouse gasses (2008 base level: 703,311)</td>
<td>603,504</td>
<td>592,269</td>
<td>571,595</td>
<td>581,779</td>
<td>50% reduction from 2008 levels by 2021 (351,656)</td>
<td>113</td>
</tr>
<tr>
<td></td>
<td>System</td>
<td>Credit rating</td>
<td>Aa1</td>
<td>Aa1</td>
<td>Aa1</td>
<td>Aa1</td>
<td>Maintain per Board policy</td>
<td>111</td>
</tr>
<tr>
<td>Athletics</td>
<td>Twin Cities</td>
<td>Graduation Success Rate (GSR)</td>
<td>88.2%</td>
<td>90.2%</td>
<td>91.9%</td>
<td>93.1%</td>
<td>Maintain recent gains</td>
<td>39</td>
</tr>
</tbody>
</table>
2018 University Performance and Accountability Report
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Introduction

“To benefit the people of the state, the nation, and the world”

University Mission

The University of Minnesota, founded in the belief that all people are enriched by understanding, is dedicated to the advancement of learning and the search for truth; the sharing of this knowledge through education for a diverse community; and to the application of this knowledge to benefit the people of the state, the nation, and the world.

This mission, carried out on multiple campuses and throughout the state, is threefold:

Providing an extraordinary education that generates knowledge, understanding, and creativity. We seek to develop students who become leading scientists and teachers, engineers and artists, and health and business professionals, and who contribute to their communities at every level.

Conducting breakthrough research that moves us forward. Our researchers improve our understanding of the world and how we work and live.

Partnering with communities to advance research, share knowledge, and provide students with powerful academic experiences that address the challenges of a diverse and changing world.

To support this mission effectively, the University is committed to:

Employing world-class faculty and staff who are innovative, energetic, and dedicated to the highest standards of excellence.

Stewarding an outstanding organization that is responsible with resources, dedicated to measuring and improving performance, and aligned to support the University’s core functions of teaching, research, and outreach.

University Overview

The University of Minnesota, founded in 1851, seven years before the territory of Minnesota became a state, is one of Minnesota’s most important assets, as well as a powerful resource for the region, the nation, and the world.

The University comprises five campuses with distinct roles, each campus contributing to the University’s mission: the Twin Cities campus, where the University originated; the Duluth campus, which joined the University in 1947; the Morris campus, which became a system campus in 1960; the Crookston campus, which was added in 1966; and the Rochester campus, which was designated a system campus in 2006. The University is the state’s only research university, and the Twin Cities campus is among the nation’s most comprehensive institutions—one of only five campuses that have agricultural, engineering, and veterinary medicine programs as well as law and medical schools.

The University is the state’s economic and intellectual engine. As a globally engaged research institution and one of only 62 members of the prestigious Association of American Universities, it serves as a magnet for talented people, a hub for collaboration, and a powerful catalyst for growth and innovation—a place where ideas flourish and where discoveries and services advance Minnesota’s economy and quality of life. As Minnesota’s land-grant institution, the University is strongly connected to Minnesota’s communities, large and small, partnering with the public to apply its research and teaching for the benefit of the state and its citizens.
Governance and Leadership

The University is governed by a Board of Regents elected by the Minnesota Legislature (see discussion on page 3 and list of current regents in Appendix B). The president, executive vice president and provost, and vice presidents serve as the senior leaders of the University and the Twin Cities campus, which avoids the added administrative cost of a separate “system” office. Direct leadership for the remaining campuses is provided by four chancellors (see list of senior leaders in Appendix C).

Accreditation

All campuses of the University of Minnesota operate with the accreditation of the Higher Learning Commission. The Twin Cities campus has been accredited continuously since 1913. The Duluth campus has been accredited since 1968, and the Morris and Crookston campuses were first accredited in 1970 and 1971. The Rochester and Twin Cities campuses are accredited jointly. Each campus is accredited to offer the bachelor’s degree; the Duluth campus is accredited to offer the master’s degree and the Doctor of Education (Ed.D.) degree; and the Twin Cities campus is accredited to grant master’s, doctoral, and professional degrees (see accreditation discussion on page 5).

Enrollment

Total enrollment at the University’s campuses for fall 2018 was 66,880. Sixty-six percent of registered students were undergraduates. Non-degree-seeking students represented eight percent of total enrollment. In 2017–18, the University granted 10,736 bachelor’s degrees, 3,561 master’s degrees, and 1,675 doctoral degrees (Ph.D., M.D., D.V.M., D.D.S., Pharm.D., J.D.) (Progress Card Measure).
An Accountable University

“... The regents shall make a report annually, to the Legislature ... exhibiting the state and progress of the University ... and such other information as they may deem proper, or may from time to time be required of them.”

—University charter, 1851 Territorial Statutes, Chapter 3, Section 16

Since the University’s inception over 165 years ago, public and University leaders have established and continuously reaffirmed a principle of accountability. Accountability for an institution as important and complex as the University of Minnesota, however, has myriad forms and interpretations. For some, accountability requires a discussion about the University’s ability to address its mission. For others, accountability may necessitate a precise accounting of revenue and expenditures, an assurance of efficient and competent management of institutional resources, or records and institutional data about students and performance. Yet others may hold that accountability is best met by examining leadership and its ability to employ strategies that advance a vision. Still others understand accountability in terms of return on investment and so look for evidence of direct impact on the state of Minnesota and its citizens.

The University’s leaders take seriously this responsibility to be accountable, in all of the ways mentioned above. Among the participants engaged in the University’s accountability relationships are its Board of Regents; senior leaders and internal units; faculty, state, and federal authorities; citizen and nonprofit organizations; accreditation associations; and multiple media organizations.

University of Minnesota
Board of Regents

Chapter 3 of Minnesota’s 1851 Territorial Statutes established the University of Minnesota and specified that “[t]he government of the University shall be vested in a board of twelve regents, who shall be elected by the legislature.” Later sections delineate specific powers to “enact laws for the government of the University”; “regulate the course of Instruction” and confer degrees and diplomas; regulate and prescribe tuition and fees; and select, manage, and control all University lands.

These twelve regents—eight of whom are elected to represent Minnesota’s eight congressional districts and four elected at large—represent the interests and needs of the citizens of Minnesota and, on their behalf, hold the University’s senior leadership accountable. The board’s fundamental accountability documents are the Systemwide Strategic Plan (president.umn.edu/strategic-vision/system-wide), University Performance and Accountability Report (z.umn.edu/accountabilityreport), the Annual Operating Budget (finance.umn.edu/budget.html), and the Capital Budget (finance.umn.edu/budget_capital.html).

Other accountability activities at this level include the president’s report to the regents at each of their regular board meetings, as well as monthly, quarterly, and annually mandated reports to the board on topics such as student admissions and progress, faculty promotion and tenure, tuition rates, the independent auditor’s report, real estate transactions, gifts, asset management, purchases of goods and services over $1 million, new and changed academic programs, academic unit strategic plans, NCAA reports on student-athletes, and presidential performance reviews. Such reports and presentations are archived on the Board of Regents website.

University Progress Card

In October 2015, the Board of Regents, in consultation with the administration, approved a Progress Card
framework (oir.umn.edu/planning-metrics/progress-card) to drive performance and support oversight. The development effort focused on identifying the areas in which the Board of Regents should set specific aspirational goals. The board’s intent was to focus oversight on a limited number of measurable goals and trends that indicate or drive excellence, understanding that the University measures progress and accountability broadly throughout the institution in many ways, including the University’s Performance and Accountability Report.

The board has adopted a set of “gold” and “maroon” measures for the Progress Card. The gold measures represent data sources that are well understood and agreed upon, where there is the ability to set a quantifiable goal over a reasonable time period, and where the University can take actions to influence the results. The maroon measures are important trends and indicators, but the goals may be directional in nature or the measure may only need to be monitored, and University action alone is not likely to significantly influence the measure. The board’s intent is to monitor these measures on a regular basis to assess University progress in these important areas.

All of these Progress Card measures are connected to and more deeply informed by the broader discussion of performance and accountability found in the rest of this report. See page 6 for the current Progress Card and Appendix E for data definitions.

**Major, University-level Accountability Activities**

Senior leaders engage in reporting, communications, and other activities that address the University’s accountability responsibility. Select examples include:

- The president’s annual State of the University address;
- Government & Community Relations reports on the University’s impact by county and legislative district (government-relations.umn.edu/content/universitys-impact);
- Annual report of University research activity (research.umn.edu/resources/research-statistics);
- Annual accounting of student services fee allocations (ssf.umn.edu);
- Public Engagement reports (www.engagement.umn.edu/our-impact/reports);
- Institutional success and demographic data managed by the Office of Institutional Research (oir.umn.edu);
- Annual reports on real estate, sustainability, capital planning, and project management;
- Annual updates on energy management and utilities and facilities condition and utilization;
- Survey findings, including citizen, alumni, student, and employer satisfaction;
- University participation in higher education consortia, such as the Association of American Universities, Association of Public and Land-grant Universities, American Council on Education, and Big Ten Academic Alliance.

**Office and Program Reports**

In addition to the major reports prepared by senior leaders for the Board of Regents and other audiences, offices and programs across the University produce reports or other accountability communications for an array of stakeholders. These include reports by University research centers, key administrative or student services areas, and annual reports to donors.

**Government and Other External Organization Requirements**

The University provides a number of reports to the Minnesota Legislature and other organizations, including:

- Postsecondary Planning: A joint report to the Minnesota Legislature by Minnesota State and University of Minnesota;
- Compliance reports to such agencies as the U.S. Department of Education, National Science Foundation, National Institutes of Health, U.S. Department of Agriculture, National Collegiate Athletic Association, University Institutional Review Board, City of Minneapolis, Hennepin
County, and Minnesota Office of Higher Education;
• Testimony to local, state, and federal governments;
• Assessment and evaluation reports to philanthropic foundations.

Institutional and Program Accreditation

One tool that holds the University accountable for academic quality is accreditation. Accreditation is the process of assuring and advancing the quality of higher education institutions’ campuses, departments, and programs through reviews by outside agencies. Two types of accreditation, with varied breadth, apply to the University.

The first type of accreditation reviews an entire higher education institution and its programs for quality. Each University of Minnesota campus operates with full accreditation at the institutional level by the Higher Learning Commission. The Crookston, Rochester, and Twin Cities campuses were reviewed by the Higher Learning Commission in 2015 and were granted continued accreditation status. In July 2018, the Higher Learning Commission officially continued Duluth’s accreditation based on the successful review conducted in the spring. In particular, the review team noted the campus’s “work and progress on the strategic plan” as well as the “great work with regard to the assessment of student learning.”

The second type of accreditation involves evaluations by a specialized accrediting body associated with a national professional organization or with a specific discipline. At the University, over 200 academic programs are accredited by bodies such as the American Bar Association, Accreditation Board for Engineering and Technology, National Association of Schools of Music, National Council for Accreditation of Teacher Education, and Accreditation Council for Graduate Medical Education.

To learn more about both types of accreditation at the University, see provost.umn.edu/academic-oversight/accreditation.

Media and the General Public

Media organizations, such as the Minnesota Daily, Pioneer Press, Star Tribune, and MPR News, play an important role in holding the University accountable. The Minnesota Data Practices Act is a set of laws designed to ensure that the media and members of the general public have access to public records of government bodies at all levels in Minnesota. This access positions other parties to engage the University, to raise questions, and to verify information.

The University Performance and Accountability Report

As noted earlier, Board of Regents operations policy identifies this report as one of four fundamental accountability and planning documents. Specifically, the University Performance and Accountability Report:

• publicly demonstrates the University’s accountability for progress in reaching its stated goals and objectives;
• links planning, performance evaluation, and resource allocation at the system and campus/college level;
• illustrates and analyzes longitudinal trends in key areas;
• provides a means for comparisons with peer institutions; and
• identifies areas for continued work.

The pages that follow align with and connect to the mission of the University. Chapter 3 describes some of the planning underway at each campus to ensure future success and excellence. Chapters 4, 5, and 6 discuss the University’s effectiveness in fulfilling the fundamental land-grant mission of teaching, research, and outreach. Chapters 7 and 8 address the University’s effectiveness in supporting that mission by employing world-class faculty and staff and stewarding an outstanding organization.
## University Progress Card
### Gold Measures

<table>
<thead>
<tr>
<th>Entering Year</th>
<th>Campus</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>Goal/Year</th>
<th>See page</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-year graduation rate</td>
<td>Crookston</td>
<td>44.5%</td>
<td>46.5%</td>
<td>46.2%</td>
<td>45.2%</td>
<td>45%/2017 cohort</td>
<td>57–58</td>
</tr>
<tr>
<td></td>
<td>Duluth</td>
<td>39.0%</td>
<td>38.9%</td>
<td>40.9%</td>
<td>46.6%</td>
<td>45%/2017 cohort</td>
<td>45–46</td>
</tr>
<tr>
<td></td>
<td>Morris</td>
<td>52.6%</td>
<td>54.3%</td>
<td>48.9%</td>
<td>49.1%</td>
<td>60%/2017 cohort</td>
<td>51</td>
</tr>
<tr>
<td></td>
<td>Rochester</td>
<td>63.1%</td>
<td>56.4%</td>
<td>60.0%</td>
<td>55.4%</td>
<td>60%/2017 cohort</td>
<td>61</td>
</tr>
<tr>
<td></td>
<td>Twin Cities</td>
<td>63.3%</td>
<td>65.2%</td>
<td>68.4%</td>
<td>71.1%</td>
<td>65%/2017 cohort</td>
<td>38–39</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Entering Year</th>
<th>Campus</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>Goal/Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-year graduation rate</td>
<td>Crookston</td>
<td>48.4%</td>
<td>56.7%</td>
<td>58.9%</td>
<td>53.0%</td>
<td>60%/2015 cohort</td>
</tr>
<tr>
<td></td>
<td>Duluth</td>
<td>66.5%</td>
<td>64.7%</td>
<td>65.1%</td>
<td>64.9%</td>
<td>68%/2015 cohort</td>
</tr>
<tr>
<td></td>
<td>Morris</td>
<td>68.1%</td>
<td>69.1%</td>
<td>64.1%</td>
<td>69.9%</td>
<td>80%/2015 cohort</td>
</tr>
<tr>
<td></td>
<td>Rochester</td>
<td>60.0%</td>
<td>62.0%</td>
<td>69.4%</td>
<td>66.4%</td>
<td>60%/2015 cohort</td>
</tr>
<tr>
<td></td>
<td>Twin Cities</td>
<td>77.6%</td>
<td>78.9%</td>
<td>80.6%</td>
<td>80.4%</td>
<td>82%/2015 cohort</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Entering Year</th>
<th>Campus</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>Goal/Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-year graduation rate</td>
<td>System</td>
<td>45.4%</td>
<td>47.4%</td>
<td>50.9%</td>
<td>53.6%</td>
<td>54%/2017 cohort</td>
</tr>
<tr>
<td>Freshman average ACT</td>
<td>Twin Cities</td>
<td>28.2</td>
<td>28.3</td>
<td>28.4</td>
<td>28.4</td>
<td>&gt;28.0</td>
</tr>
<tr>
<td>Institutional gift aid</td>
<td>System</td>
<td>$223M</td>
<td>$233M</td>
<td>$246M</td>
<td>$260M</td>
<td>$275M/2021</td>
</tr>
<tr>
<td></td>
<td>FY2014</td>
<td>FY2015</td>
<td>FY2016</td>
<td>FY2017</td>
<td>Goal/Year</td>
<td></td>
</tr>
<tr>
<td>R&amp;D expenditures</td>
<td>Twin Cities</td>
<td>$877M</td>
<td>$881M</td>
<td>$910M</td>
<td>$922M</td>
<td>$900M/2021</td>
</tr>
<tr>
<td></td>
<td>FY2014</td>
<td>FY2015</td>
<td>FY2016</td>
<td>FY2017</td>
<td>Goal/Year</td>
<td></td>
</tr>
<tr>
<td>Medical School ranking</td>
<td>Twin Cities</td>
<td>30</td>
<td>32</td>
<td>34</td>
<td>33</td>
<td>Top 20/2021</td>
</tr>
<tr>
<td></td>
<td>Duluth</td>
<td>30</td>
<td>32</td>
<td>34</td>
<td>33</td>
<td>Top 20/2021</td>
</tr>
<tr>
<td>Faculty awards N and (Rank: Public Universities)</td>
<td>Twin Cities</td>
<td>33 (5th)</td>
<td>32 (6th)</td>
<td>26 (8th)</td>
<td>35 (7th)</td>
<td>35+ (Top 10)/2021</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2013</td>
<td>2014</td>
<td>2015</td>
<td>2017</td>
<td>Goal/Year</td>
</tr>
<tr>
<td>% Participation in Employee Engagement Survey</td>
<td>System</td>
<td>57%</td>
<td>64%</td>
<td>67%</td>
<td>71%</td>
<td>72%/2021</td>
</tr>
<tr>
<td></td>
<td>FY2015</td>
<td>FY2016</td>
<td>FY2017</td>
<td>FY2018</td>
<td>Goal/Year</td>
<td></td>
</tr>
<tr>
<td>Op-Ex—continued progress on $90M</td>
<td>System</td>
<td>$40.4M</td>
<td>$57.8M</td>
<td>$68.4M</td>
<td>$79.1M</td>
<td>$90M/FY19</td>
</tr>
</tbody>
</table>

See pages 3–4 for background on this Progress Card, and Appendix E for definitions of the measures.
<table>
<thead>
<tr>
<th>Strategic Focus</th>
<th>Campus</th>
<th>Performance Drivers/Outcomes</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>Goal</th>
<th>See page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Undergraduate Education</strong></td>
<td>Twin Cities</td>
<td>Transfer student 3-year graduation rate</td>
<td>61.4%</td>
<td>62.4%</td>
<td>64.6%</td>
<td>63.8%</td>
<td>&gt;65%</td>
<td>36</td>
</tr>
<tr>
<td><strong>Graduate Education</strong></td>
<td>Twin Cities/Duluth</td>
<td>Graduate and professional degrees awarded</td>
<td>5,305</td>
<td>5,184</td>
<td>5,372</td>
<td>5,236</td>
<td>&gt;5,250</td>
<td>2</td>
</tr>
<tr>
<td><strong>Financial Accessibility</strong></td>
<td>System</td>
<td>Median undergraduate debt at graduation</td>
<td>$24,854</td>
<td>$24,776</td>
<td>$24,645</td>
<td>$24,268</td>
<td>Grow no faster than CPI; correct for federal/state policy changes</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2014 2015 2017 2018 Goal</td>
<td></td>
</tr>
<tr>
<td><strong>Inclusive Success</strong></td>
<td>Twin Cities</td>
<td>Students of color with a favorable sense of belonging on campus (SERU survey)</td>
<td>58.9%</td>
<td>57.3%</td>
<td>52.3%</td>
<td>49.9%</td>
<td>Match non-SOC response (currently 63.1%)</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2014 2015 2016 2017 Goal</td>
<td></td>
</tr>
<tr>
<td><strong>Serving Minnesota Students</strong></td>
<td>System</td>
<td>Percent of incoming new (and all currently enrolled undergraduate) students who are Minnesota high school graduates</td>
<td>71.0% (71.4%)</td>
<td>70.0% (71.0%)</td>
<td>70.6% (71.1%)</td>
<td>69.4% (70.6%)</td>
<td>Maintain historical access</td>
<td>32</td>
</tr>
<tr>
<td><strong>Health Sciences</strong></td>
<td>Twin Cities/Duluth/Rochester</td>
<td>Enrollment in in-demand health science specialities (Nursing, Pharmacy, Dentistry)</td>
<td>2,085</td>
<td>2,072</td>
<td>2,075</td>
<td>2,163</td>
<td>&gt;2,100</td>
<td>78</td>
</tr>
<tr>
<td></td>
<td>Twin Cities/Duluth/Rochester</td>
<td>Total combined fall enrollment in Academic Health Center schools and AHC Center for Allied Health</td>
<td>6,198</td>
<td>6,316</td>
<td>6,176</td>
<td>6,567</td>
<td>&gt;6,350</td>
<td>78</td>
</tr>
<tr>
<td><strong>Research</strong></td>
<td>Twin Cities</td>
<td>National public research ranking</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>9</td>
<td>Maintain top 10 85–86</td>
<td></td>
</tr>
<tr>
<td>System</td>
<td></td>
<td></td>
<td>69</td>
<td>81</td>
<td>72</td>
<td>86</td>
<td>10% annual growth 90</td>
<td></td>
</tr>
<tr>
<td><strong>Land-Grant Mission</strong></td>
<td>System</td>
<td>Public service expenditures</td>
<td>$253M</td>
<td>$248M</td>
<td>$258M</td>
<td>$306M</td>
<td>&gt;$245M 95</td>
<td></td>
</tr>
<tr>
<td><strong>Academic Excellence</strong></td>
<td>Twin Cities</td>
<td>Citations per faculty member</td>
<td>126</td>
<td>124</td>
<td>133</td>
<td>n/a</td>
<td>&gt;125 85</td>
<td></td>
</tr>
<tr>
<td>System</td>
<td></td>
<td></td>
<td>31</td>
<td>52</td>
<td>75</td>
<td>&gt;80 from 2015–2020 32</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>FY2014</td>
<td>FY2015</td>
<td>FY2016</td>
<td>FY2017</td>
<td>Goal/Year</td>
<td></td>
</tr>
<tr>
<td><strong>Operational Excellence</strong></td>
<td>System</td>
<td>Spending on leadership &amp; oversight vs. mission and mission support (%)</td>
<td>8.4%</td>
<td>8.1%</td>
<td>8.3%</td>
<td>8.2%</td>
<td>Decrease over time 112</td>
<td></td>
</tr>
<tr>
<td>System</td>
<td></td>
<td></td>
<td>7.73M</td>
<td>8.32M</td>
<td>8.43M</td>
<td>8.50M</td>
<td>Decrease over time 113</td>
<td></td>
</tr>
<tr>
<td>System</td>
<td></td>
<td></td>
<td>603,504</td>
<td>592,269</td>
<td>571,595</td>
<td>581,779</td>
<td>50% reduction from 2008 levels by 2021 (351,656) 113</td>
<td></td>
</tr>
<tr>
<td>System</td>
<td></td>
<td></td>
<td>Aa1</td>
<td>Aa1</td>
<td>Aa1</td>
<td>Aa1</td>
<td>Maintain per Board policy 111</td>
<td></td>
</tr>
<tr>
<td><strong>Athletics</strong></td>
<td>Twin Cities</td>
<td>Graduation Success Rate (GSR)</td>
<td>88.2%</td>
<td>90.2%</td>
<td>91.9%</td>
<td>93.1%</td>
<td>Maintain recent gains 39</td>
<td></td>
</tr>
</tbody>
</table>
Planning for Success

The distinctiveness of the University’s five campuses and the comprehensive and distributed nature of the system allow the University of Minnesota to be greater than the sum of its parts. Each campus has an individual history and strategy for contributing to the University’s mission and vision in the way that best serves its students, the region, and the state. Together, the Crookston, Duluth, Morris, Rochester, and Twin Cities campuses encompass a rich variety of academic departments and degree programs, all of them essential components of the University system.

The strengths of each campus complement one another and contribute to meeting the educational and workforce needs of the state. The following sections summarize how each campus is planning for success in achieving the University’s mission summarized on page 1. Links to comprehensive campus strategic planning documents are listed in Appendix A.
Twin Cities Campus

Founded
1851

Leadership
Eric W. Kaler, President
Karen Hanson, Executive Vice President and Provost

Colleges and Schools
Carlson School of Management
Center for Allied Health Programs
College of Biological Sciences
College of Continuing and Professional Studies
College of Design
College of Education and Human Development
College of Food, Agricultural and Natural Resource Sciences
College of Liberal Arts
College of Pharmacy
College of Science and Engineering
College of Veterinary Medicine
Humphrey School of Public Affairs
Law School
Medical School
School of Dentistry
School of Nursing
School of Public Health

Degrees/Majors Offered
151 undergraduate degree programs; 184 master's degree programs; 107 doctoral degree programs

Student Enrollment (Fall 2018)
Undergraduate 31,455 (62%)
Graduate 12,189 (24%)
Professional 3,757 (7%)
Non-degree 3,450 (7%)
Total 50,851

Employees (Fall 2018)
Direct Academic Providers 7,116 (29%)
Fellows, Trainees, and Students in Academic Jobs 6,254 (26%)
Higher Education Mission Support 3,998 (16%)
Intercollegiate Athletics 139 (1%)
Facilities-related Jobs 1,355 (6%)
Organizational Support 4,523 (19%)
Leadership 992 (4%)
Total Employees 24,377

Degrees Awarded (2017–18)
Bachelor's 7,811 (61%)
Master's 3,349 (26%)
Doctoral and Professional 1,666 (13%)
Total 12,826

Campus Physical Size (2018)
Minneapolis
Number of Buildings 165
Assignable Square Feet 11,433,866
St. Paul
Number of Buildings 100
Assignable Square Feet 2,577,964

Budget Expenditures (FY2018)
$3.4 billion
Planning at the University of Minnesota Twin Cities

The Twin Cities campus continues to implement “Driving Tomorrow,” its multifaceted strategic plan to accelerate advancement of excellence in research, teaching, and outreach.

The plan builds on the strengths of the campus as Minnesota’s globally engaged research university and one of few major land-grant research institutions situated in a major metropolitan area. The plan recognizes the special opportunities and responsibilities the campus has to innovate and lead through transformative research and teaching engaged with the most pressing and complex challenges of the state of Minnesota and the world.

The Driving Tomorrow plan frames many actions that will further expand the impact of the campus in carrying out its distinctive responsibilities as Minnesota’s land-grant university, dedicated to serving the public good; and as the state’s designated research institution, charged with positioning Minnesota at the forefront of emerging knowledge and educating highly skilled workers, professionals, leaders, and global citizens to thrive in a diverse and changing world.

Strategic Priorities

The Twin Cities campus strategic plan was developed with broad input by a campus-wide work group and extended teams of faculty, staff, and students. Approved by the Board of Regents in fall 2014, the plan includes four supporting goals for advancing the quality, impact, and reputation of the University’s flagship research campus. Many initiatives and collaborations are underway to implement the plan across the four goal areas:

• **Build an exceptional university that leverages its research and curricular strengths for powerful impact on grand societal challenges.** Develop and support more ambitious and innovative collaborations across disciplines as well as through new learning and career pathways that prepare students to be outstanding leaders, innovators, and global citizens.

• **Reject complacency to foster an invigorated campus culture of ambition, challenge, exploration, and innovation.** Create a more nimble and integrative university to better serve our students and state; support highest expectations in all aspects of our mission.

• **Recruit and retain the best field-shaping researchers and teachers spanning diverse disciplines and backgrounds.** Make Minnesota a magnet for diverse high achievers and innovators who will advance excellence in research, outreach, and engagement and provide world-class educational experiences for graduate, professional, and undergraduate students.

• **Capitalize on the campus’s unique location and its global reach to build a culture of reciprocal engagement.** Expand partnerships and shared purposes to benefit the state and our students, strengthen community, and deepen Minnesota’s connections around the globe.

Implementation Steps and Progress

To implement the plan as a broad-based framework for institutional reinvigoration, the campus has made its goals central to the compact planning and budget planning processes that shape academic directions and strategic investment decisions. Colleges and departments across the campus are working in a variety of ways to align and integrate the plan with core research, teaching, and outreach activities. The plan’s strategic priorities have also been incorporated into work plans in the central administrative areas of undergraduate education, graduate and professional education, faculty and academic affairs, student affairs, equity and diversity, human resources, and others.

Collaborations during the first years of implementation have yielded specific campus accomplishments across the four goal areas, and progress has been made on larger institutional transformations.

Curricular and Research Transformations

The campus has placed special emphasis on jump-starting curricular and research goals as key components of the larger vision for institutional reinvigoration and excellence. To more powerfully marshal exceptional research strengths spanning
multiple disciplines, a slate of priority “Grand Challenges” has been established through a faculty-driven process. Criteria include global impact and local relevance, extent of existing faculty strength and leadership, disciplinary diversity, interconnection with education and external partners, and other criteria outlined in the strategic plan. The slate of challenges highlights five areas where the University is positioned for great impact: assuring clean water and sustainable ecosystems; fostering just and equitable communities; enhancing individual and community capacity for a changing world; feeding the world sustainably; and advancing health through tailored solutions.

The Provost’s Grand Challenges Research Initiative has reallocated internal resources to expand ambitious research collaborations in these areas. Two phases to date have made internal investments totaling $3.6 million in team projects and research collaboratives aimed at strengthening food sustainability, closing health disparities, mitigating water pollution, promoting healthy child development, and addressing other critical issues. The teams span hundreds of researchers and scholars across the University’s 17 colleges and schools, along with external partners. A third phase, in 2018–19, will make further investments in ambitious work leveraging a wide range of exceptional research strengths at the University in collaboration with community partners.

These collaborations will provide learning and research opportunities for undergraduate and graduate students, strengthen opportunities for competitive outside funding, and lead to new strategies to support and sustain innovative and ambitious research benefiting students and the public.

The Driving Tomorrow investments are synergistic with the systemwide strategic research goals of the Office of the Vice President for Research and complement publicly engaged work already underway at the University, such as MnDRIVE initiatives on food and the environment, Academic Health Center initiatives, and interdisciplinary collaborations to foster vibrant communities. The expanded initiatives also dovetail with ongoing efforts by colleges and departments to build productive collaborations across structural and disciplinary boundaries.

A Grand Challenges Curriculum also has been launched, with courses focusing on foundational competencies students can apply across a range of topics. The solution-driven courses, team taught by cross-disciplinary instructors, immerse students in the critical thinking and discovery that are central to the University’s educational mission. The innovative courses address issues with both local and global relevance and integrate diverse expertise, methods, and perspectives. Topics have ranged from fracking to global hunger to reconciliation and justice.

The undergraduate-level Grand Challenge courses are constructed to fulfill one of the current liberal education theme requirements (civic life and ethics, diversity and social justice, environment, global perspectives, technology and society). Along with the development of related minors and theme courses, the Grand Challenges Curriculum opens up important learning and career opportunities for students. These curricular innovations also will inform faculty consideration of new approaches to liberal education requirements.

**Ongoing and Emerging Initiatives**

In addition to making progress on curriculum and research goals, the campus is moving forward to achieve the other components of the plan. Priority initiatives focus on strongly supporting faculty excellence across the career span; building a broad-based public engagement agenda; advancing equity, diversity, and a vibrant and inclusive campus community; and strengthening opportunities and practices that harness the full collaborative potential of a comprehensive research campus.

The strategic plan for the Twin Cities campus will be connected with the plans of the Crookston, Duluth, Morris, and Rochester campuses as part of the overarching strategic framework for the excellence of the University of Minnesota system. University leaders will continue to engage both campus and external stakeholders in discussing progress toward goals and in refining the framework as a dynamic roadmap for the future.

**Comparison Group Institutions**

To assist with campus planning and assessing success, the Twin Cities campus has identified ten public
research universities for primary comparison. While these institutions are among the most similar in size and complexity to the Twin Cities campus and the best available for comparison, the institutions have significant differences that should be noted. Table 3-1 shows the variance among the eleven schools across type, scope, size, and students. Notably, the Twin Cities campus comparison group includes the very best public research universities in the United States. In using this peer group as a benchmark, the University intentionally measures itself against the highest standards in the nation.

Table 3-1. Comparison group institutions, Twin Cities campus

<table>
<thead>
<tr>
<th>Institution</th>
<th>Land Grant</th>
<th>City Size</th>
<th>State Pop.</th>
<th>Institution Includes:</th>
<th>Enrollment (9)</th>
<th>Faculty (10)</th>
<th>R&amp;D (11)</th>
<th>ACT 25th-75th Percentiles (12)</th>
<th>Percent in-state (13)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ohio State U.–Columbus</td>
<td>Large</td>
<td>11.5</td>
<td></td>
<td>✓ Agriculture, Law, Med. School, Hospital</td>
<td>59,482</td>
<td>2,431</td>
<td>$864</td>
<td>26.4-31.3</td>
<td>67%</td>
</tr>
<tr>
<td>Penn. State U.–University Park</td>
<td>Small</td>
<td>12.7</td>
<td></td>
<td>✓ O, O, O</td>
<td>47,789</td>
<td>1,775</td>
<td>$855</td>
<td>24.2-29.0</td>
<td>53%</td>
</tr>
<tr>
<td>U. of California–Berkeley</td>
<td>Mid-size</td>
<td>37.3</td>
<td></td>
<td>✓ Agriculture, Law, Med. School, Hospital</td>
<td>40,154</td>
<td>1,831</td>
<td>$771</td>
<td>29.3-34.6</td>
<td>76%</td>
</tr>
<tr>
<td>U. of California–Los Angeles</td>
<td>Large</td>
<td>37.3</td>
<td></td>
<td>✓ Agriculture, Law, Med. School, Hospital</td>
<td>43,548</td>
<td>1,373</td>
<td>$1,077</td>
<td>26.3-33.0</td>
<td>75%</td>
</tr>
<tr>
<td>U. of Florida–Gainesville</td>
<td>Mid-size</td>
<td>18.8</td>
<td></td>
<td>✓ Agriculture, Law, Med. School, Hospital</td>
<td>52,367</td>
<td>1,743</td>
<td>$801</td>
<td>26.5-31.0</td>
<td>83%</td>
</tr>
<tr>
<td>U. of Illinois–Urbana-Champaign</td>
<td>Small</td>
<td>12.8</td>
<td></td>
<td>✓ Agriculture, Law, Med. School, Hospital</td>
<td>46,951</td>
<td>1,974</td>
<td>$642</td>
<td>26.6-32.2</td>
<td>74%</td>
</tr>
<tr>
<td>U. of Michigan–Ann Arbor</td>
<td>Mid-size</td>
<td>9.9</td>
<td></td>
<td>✓ Agriculture, Law, Med. School, Hospital</td>
<td>44,718</td>
<td>1,757</td>
<td>$1,530</td>
<td>29.0-33.2</td>
<td>51%</td>
</tr>
<tr>
<td>U. of Minnesota–Twin Cities</td>
<td>Large</td>
<td>5.3</td>
<td></td>
<td>✓ Agriculture, Law, Med. School, Hospital</td>
<td>51,579</td>
<td>2,752</td>
<td>$922</td>
<td>26.0-31.2</td>
<td>64%</td>
</tr>
<tr>
<td>U. of Texas–Austin</td>
<td>Large</td>
<td>25.1</td>
<td></td>
<td>✓ O, O</td>
<td>51,331</td>
<td>2,173</td>
<td>$652</td>
<td>25.5-32.0</td>
<td>88%</td>
</tr>
<tr>
<td>U. of Washington–Seattle</td>
<td>Large</td>
<td>6.7</td>
<td></td>
<td>✓ Agriculture, Law, Med. School, Hospital</td>
<td>45,591</td>
<td>2,711</td>
<td>$1,348</td>
<td>24.7-31.3</td>
<td>68%</td>
</tr>
<tr>
<td>U. of Wisconsin–Madison</td>
<td>Mid-size</td>
<td>5.7</td>
<td></td>
<td>✓ Agriculture, Law, Med. School, Hospital</td>
<td>42,582</td>
<td>1,936</td>
<td>$1,193</td>
<td>26.8-31.2</td>
<td>57%</td>
</tr>
</tbody>
</table>

1 The U.C. System is the land-grant university of California.
2 City size estimates, U.S. Census Bureau, 2010.
3 State population in millions, U.S. Census Bureau, 2010.
4 The Penn State U. Medical School is located on the Hershey campus.
5 Hospital affiliated with but not owned by campus.
6 The U. of I. Medical Center is located on the Chicago campus.
7 The U. of T. medical programs are located on several other campuses.
8 Fall 2016 enrollment. Total enrollment includes non-degree-seeking students; undergraduate enrollment includes only degree-seeking students. Integrated Postsecondary Education Data System.
9 10 Fall 2016 full-time instructional faculty that are tenured tenure track. Integrated Postsecondary Education Data System.
11 Fall 2016 ACT test scores of first-time degree-seeking students; SAT scores were converted to ACT scores using the College Board ACT and SAT Concordance. Integrated Postsecondary Education Data System.
12 Fall 2016 percentage of first-time undergraduates who are state residents; residency is required reporting in even years. Integrated Postsecondary Education Data System.
Duluth Campus

Founded
1895—State Normal School at Duluth
1921—Duluth State Teachers College
1947—University of Minnesota Duluth

Campus Leadership
Lendley (Lynn) Black, Chancellor

Colleges and Schools
College of Education and Human Service Professions
College of Liberal Arts
Labovitz School of Business and Economics
School of Fine Arts
Swenson College of Science and Engineering

Academic Partnerships
College of Pharmacy
Medical School

Degrees/Majors Offered
91 undergraduate degree programs; 25 graduate programs;
participates in two all-University doctoral programs

Student Enrollment (Fall 2018)

<table>
<thead>
<tr>
<th>Enrollment</th>
<th>Number</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>9,109</td>
<td>83%</td>
</tr>
<tr>
<td>Graduate</td>
<td>682</td>
<td>6%</td>
</tr>
<tr>
<td>Professional*</td>
<td>351</td>
<td>3%</td>
</tr>
<tr>
<td>Non-degree</td>
<td>898</td>
<td>8%</td>
</tr>
<tr>
<td>Total</td>
<td>11,040</td>
<td></td>
</tr>
</tbody>
</table>

*Granted by Twin Cities campus, delivered at Duluth campus.

Employees (Fall 2017)

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct Academic Providers</td>
<td>682</td>
<td>36%</td>
</tr>
<tr>
<td>Fellows, Trainees, and Students</td>
<td>259</td>
<td>13%</td>
</tr>
<tr>
<td>in Academic Jobs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Higher Education Mission Support</td>
<td>272</td>
<td>14%</td>
</tr>
<tr>
<td>Intercollegiate Athletics</td>
<td>54</td>
<td>3%</td>
</tr>
<tr>
<td>Facilities-Related Jobs</td>
<td>170</td>
<td>9%</td>
</tr>
<tr>
<td>Organizational Support</td>
<td>406</td>
<td>21%</td>
</tr>
<tr>
<td>University Leadership</td>
<td>77</td>
<td>4%</td>
</tr>
<tr>
<td>Total Employees</td>
<td>1,920</td>
<td></td>
</tr>
</tbody>
</table>

Degrees Awarded (2017–18)

<table>
<thead>
<tr>
<th>Degree</th>
<th>Number</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor’s</td>
<td>2,096</td>
<td>91%</td>
</tr>
<tr>
<td>Master’s</td>
<td>210</td>
<td>9%</td>
</tr>
<tr>
<td>Doctoral</td>
<td>9</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Total</td>
<td>2,314</td>
<td></td>
</tr>
</tbody>
</table>

Campus Physical Size (2018)

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Buildings</td>
<td>81</td>
</tr>
<tr>
<td>Assignable Square Feet</td>
<td>1,887,006</td>
</tr>
</tbody>
</table>

Budget Expenditures (FY2018)

$271 million
Planning at the University of Minnesota Duluth

Strategic Planning
The University of Minnesota Duluth (UMD) successfully updated its strategic plan, originally created in 2011, by adapting its six goals and updating the associated initiatives and action steps. After significant internal and external consultation and discussion, the updated and modified goals and initiatives were approved through the campus’s shared governance process in spring 2018.

The campus paid careful attention to the University Progress Card maroon and gold measures—connecting existing targets to initiatives and elaborating specific measures to UMD. In addition, the development of the initiatives and updating of goals ran parallel to the system’s strategic planning process, assuring connectivity and integration between the campus and system efforts.

Reflection
The 2017–2018 academic year provided a critical context for reflection as UMD completed its assurance argument in advance of an April 2018 comprehensive visit from the Higher Learning Commission. As strategic planning at UMD ran concurrent with most of the ten years covered since the previous accreditation visit, and UMD connected its campus program prioritization and planning to the accreditation “Quality Initiative” process, the campus had the opportunity to assess what strategic planning foci had become integrated into the campus operational culture and what efforts needed further attention or refinement.

The Quality Initiative report was submitted in August 2017 and the comprehensive assurance argument in March 2018. The result was very positive feedback from the Higher Learning Commission, including a ten-year accreditation, a clean federal compliance report, and a better understanding of how UMD may marshal its considerable strengths to move forward as an institution. Several elements of these processes stand out. One, UMD is increasingly an evidence- and data-driven institution with a better understanding of itself and its strengths and challenges. Two, UMD is more effective at connecting with external audiences and stakeholders to assess its impact and relevance to the region and state. And, three, UMD is willing to be more focused and is prepared to prioritize its resources to have the most impact on students and external communities. The updated goals and initiatives published in spring 2018 reaffirm these three elements.

Moving Forward
With more action-oriented and assessable goals, UMD has been able to identify concrete initiatives in support of its updated strategic plan. Since the plan was informed by data collected from internal and external stakeholders—as well as an analysis of the campus’s strengths, weaknesses, opportunities and threats—the goals provide the means to propel the campus forward and capitalize on opportunities in the areas of student experiences, academic programming, research, and community and economic development. Across these core areas, UMD’s goals reinforce the basic and defining characteristics of the land-grant mission.

For the 2018–2019 academic year, UMD is identifying University-wide activities and focal points associated with the campus plan’s initiatives. Cross-functional work teams and shared governance committees will play important roles in making measurable progress with respect to the strategic plan. UMD will also connect its strategic efforts to its engagement at the national level—integrating goals and initiatives with other initiatives promoted by the Association of Public Land Grant Universities and the American Association of State Colleges and Universities. Further, UMD will continue to find the connections and crossovers with University system planning.

This year, UMD will pay particular attention to issues of student retention; campus climate and inclusivity; internationalization; community and public engagement; regional economic development; and interdisciplinary academic program development (with a reinforced focus on high-impact practices that lead to student success and satisfaction). Each of these issue areas are articulated through UMD’s strategic plan and elements of the campus’s participation in national initiatives. Consequently, UMD is striving to not only deliver on its promise to students and the state of Minnesota but to also raise the profile of the campus among its actual and aspirational peers.
Comparison Group Institutions
For purposes of planning and assessment, the Duluth campus revised its peer list in recent years to include eleven higher education institutions as the primary group for comparison. These institutions are listed in Table 3-2 and were identified based on their similar academic programs, enrollment, degrees awarded, research activities, and their Carnegie Classification as Master’s Medium Programs.

Table 3-2. Comparison group institutions, Duluth campus

<table>
<thead>
<tr>
<th>TYPE</th>
<th>SIZE</th>
<th>STUDENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Institutional Control</td>
<td>City Size</td>
<td>Highest Degree Offered</td>
</tr>
<tr>
<td>CA Poly. State U.–San Luis Obispo</td>
<td>Public</td>
<td>Small</td>
</tr>
<tr>
<td>Col. of Charleston</td>
<td>Public</td>
<td>Mid-size</td>
</tr>
<tr>
<td>Minnesota State U.–Mankato</td>
<td>Public</td>
<td>Small</td>
</tr>
<tr>
<td>South Dakota State U.</td>
<td>Public</td>
<td>Small</td>
</tr>
<tr>
<td>Southern Illinois U.–Edwardsville</td>
<td>Public</td>
<td>Mid-size</td>
</tr>
<tr>
<td>U. of Mass.–Dartmouth</td>
<td>Public</td>
<td>Mid-size</td>
</tr>
<tr>
<td>U. of Michigan–Dearborn</td>
<td>Public</td>
<td>Large</td>
</tr>
<tr>
<td>U. of Minnesota–Duluth</td>
<td>Public</td>
<td>Large</td>
</tr>
<tr>
<td>U. of North Carolina–Charlotte</td>
<td>Public</td>
<td>Large</td>
</tr>
<tr>
<td>U. of Northern Iowa</td>
<td>Public</td>
<td>Mid-size</td>
</tr>
<tr>
<td>Western Michigan U.</td>
<td>Public</td>
<td>Mid-size</td>
</tr>
<tr>
<td>Western Washington U.</td>
<td>Public</td>
<td>Mid-size</td>
</tr>
</tbody>
</table>

<sup>1</sup> Fall 2016 enrollment. Total Enrollment includes non-degree-seeking students.
<sup>2</sup> Fall 2016 percentage of total enrollment composed of degree-seeking undergraduate students.
<sup>3</sup> Fall 2016 percentage of degree-seeking undergraduate students who are enrolled full time.
<sup>4</sup> Fall 2016 percentage of first-time students who are state residents; residency is required reporting biennially in even years.

Source: Integrated Postsecondary Data System
Morris Campus

Founded
1910—University of Minnesota, West Central School of Agriculture
1960—University of Minnesota Morris

Campus Leadership
Michelle Behr, Chancellor

Divisions
Education Division
Humanities Division
Science and Mathematics Division
Social Sciences Division

Degrees/Majors Offered
35 undergraduate degree programs; 9 pre-professional programs

Student Enrollment (Fall 2018)
Undergraduate 1,488 (96%)
Non-degree 66 (4%)
Total 1,554

Employees (Fall 2018)
Direct Academic Providers 159 (38%)
Fellows, Trainees, and Students 1 (<1%) in Academic Jobs
Higher Education Mission Support 70 (17%)
Intercollegiate Athletics 26 (6%)
Facilities-Related Jobs 51 (12%)
Organizational Support 103 (24%)
University Leadership 14 (3%)
Total Employees 424

Degrees Awarded (2017–18)
Bachelor’s 338

Campus Physical Size (2018)
Number of Buildings 36
Assignable Square Feet 599,467

Budget Expenditures (FY2018)
$57 million
Planning at the University of Minnesota Morris

The Morris campus’s strategic plan was approved through its governance system in 2007 and has served as a guiding framework for campus initiatives since then. In fall 2017, the campus began work on a new strategic plan projected to be completed in 2019—imagining and then creating the University of Minnesota Morris of the future. In fall 2018, the University endorsed a campus vision and eight aspirational statements to guide the campus in the achievement of that vision. Morris is also actively engaged in the University’s systemwide strategic planning work groups and processes.

Enrollment Goals

The Morris campus operates in a highly competitive market for undergraduate students, competing with private liberal arts colleges and other Minnesota public universities for undergraduate students. In this challenging environment, Morris has worked strategically to sustain its enrollment of about 400 talented new first-year students and 100 transfer students each year.

Morris campus enrollment planning includes exploration of multiple collaborations to increase student access to Morris, including transfer pathways and articulation agreements with local community colleges. Aligned with the Systemwide Strategic Plan Framework, the campus is seeking more intentional pathways from Morris into University of Minnesota professional and graduate degree programs as an undergraduate recruitment and retention strategy. Seventy-one percent of new Morris students indicate the intent to pursue post-baccalaureate study, and Twin Cities graduate and professional programs find Morris degree holders to be well prepared for such study.

The Morris campus has increased the number of American Indian students and students of color (now 30 percent of degree seekers) to provide a rich learning environment reflective of the growing diversity in Minnesota and the United States. Morris has also continued to increase and support the enrollment of international students (now eleven percent of the degree-seeking student population) to further diversify the student body as the campus prepares graduates to be global citizens.

National and International Profile

The Morris campus has elevated its national profile as a public liberal arts college; this is evidenced by national rankings and by its recent receipt of several prestigious and highly competitive grants—a Mellon Foundation grant to support collaborative undergraduate research in the humanities; a foundation grant to develop a leadership program with an emphasis on sustainability; and three multi-year U.S. Department of Education awards: TRiO Student Support Services and Ronald E. McNair Post-Baccalaureate Achievement Program grants as well as a Native American Serving Non-tribal Institutions grant.

In addition, the Morris campus has become a national leader in sustainability—a model community for renewable energy and sustainable living. The campus is striving to achieve the goal of carbon neutrality by 2020, primarily through the on-site generation of heat and power. In 2015, the Morris campus was named by the U.S. Environmental Protection Agency as a top-30 national organization for the on-site generation of power. In 2018, Morris was awarded the inaugural Excellence in Sustainability award from the National Association of College and University Business Officers, and was one of only 112 universities in the country to receive an AASHE STARS Gold rating.

On average, 70 percent of campus electricity comes from two industrial-scale wind turbines on the Pomme de Terre riverbank overlooking the campus; the combined heating and cooling system uses local biomass to heat and cool the campus and puts money back into the local economy. Solar panels warm the recreational swimming pool and provide energy required for the Green Prairie Community residence hall. A recent grant addresses the next frontier of renewables by exploring large-scale storage for wind- and solar-produced energy.

With the support of the University’s Institute on the Environment and the Minnesota Department of Trade, the Morris campus’s leadership is building model platforms for sustainability and on-site generation of renewable energy, work that is
recognized internationally. The campus and Morris community are founding members of the Climate Smart Municipalities project, an international program linking five Minnesota cities to five German cities. The partnership between the city of Morris and the city of Saerbeck in North Rhine Westphalia, Germany, allows leaders to share ways to build a more sustainable future. In summer 2018, Morris officials partnered with local business and civic leaders as part of a delegation to Saerbeck. There they exchanged ideas and goals related to community-level renewable energy projects.

Resilient Communities
The Morris campus, West Central Research and Outreach Center, and other University of Minnesota partners are working with the city of Morris and Stevens County to expand the sustainable and renewable energy platforms piloted on campus into the Morris community. Development of the Morris Model, a small city plan for building a future of self-sufficiency and resiliency, will demonstrate to other communities the path towards a more responsive and carbon-reduced future. From distributed energy platforms to a new partnership with the Morris Area schools that expands the University’s composting initiative, Morris is planning for a sustainable future.

Facilities Renovation
21st-century learning on a historic campus: The core of the Morris campus is designated as a National Historic District, which recognizes the nation’s only remaining intact campus from an experiment to offer agricultural boarding high schools in rural areas from 1910 to the 1960s. While many of the Morris campus’s historically significant and beautiful buildings have been updated to beautifully serve the liberal arts campus’s current mission, others pose maintenance and improvement challenges. Many are in “critical” condition according to the University’s facility analysis. Combining campus resources, HEAPR funds, and renovation funds, the Morris campus is working to make incremental modifications to some of these buildings, including HVAC upgrades and the recent addition of an elevator. Morris received funding through the most recent bonding process for updates to classroom spaces in the Humanities and Blakely buildings.

21st-century library: Constructed in 1967, the Morris library remains virtually unchanged and is in need of dramatic renovation to improve access, to recognize the shift from print to digital sources, and to meet the unique needs of 21st-century learners. The campus has completed a predesign plan to transform the library into a learning commons, which would provide a technology-rich environment for students that supports collaboration and creativity.

Wellness center: The Morris Physical Education Center was built in 1970 prior to the adoption of Title IX, at a time when only men’s sports were emphasized. The facility is not able to support the many female and male athletes who participate in the Morris campus’s 19 NCAA Division III sports programs, and it does not compare favorably to facilities of peer institutions, conference competitors, or other colleges considered by prospective students. A predesign shows the promise of a renovated facility and new fieldhouse addition to meet Title IX requirements, support student recruitment and persistence, refocus on student wellness and success, and better serve the region.

Expanding the Living/Learning Laboratory
West central Minnesota provides a rich laboratory for finding solutions to a number of “grand challenges” that face the region and the nation. From invasive species to the impact of climate change to sustainable agriculture, the size and location of the Morris campus positions it as a resource to address these issues. With private support, the Morris campus has completed preliminary work for the creation of an outdoor classroom on campus. In recognition of Morris’s national leadership in sustainability and environmental education, a gift of 140 acres in Ottertail County provides another opportunity for research, reflection, and discovery dedicated to environmental stewardship. This space, named the Ecostation, fosters a culture of exploration and innovation while helping students develop an appreciation of and respect for the environment.

Faculty Recruitment and Retention
Morris is a destination for faculty who believe in the University of Minnesota’s mission and vision and who care deeply about undergraduate students. Morris
faculty members have been significantly assisted by systemwide resources to support their research. University funds have also helped the faculty address the distance of Morris from major research facilities and commercial airports. These resources have proven a major factor in recruiting and retaining faculty, as has the systemwide pre-doctoral diversity fellowship, which has helped to diversify the faculty. Recruitment and retention of American Indian faculty and faculty of color remain a priority as the diversity of Morris faculty and staff lags behind that of its student population. The campus continues to prioritize the development of community among existing faculty, nearly 40 percent of whom were hired in the last decade.

Student Retention Initiative

The Morris campus’s value proposition is strong, supported by the campus’s place in the market alongside much more expensive private liberal arts colleges and by the advantages of being part of the University of Minnesota system. Retaining new students and moving them toward graduation are among the campus’s highest priorities. Morris staff and faculty have worked tirelessly to bolster first-year student engagement, success, and persistence. In spite of these efforts, recent first-to-second-year retention rates have fallen short of the campus goal. In fall 2017, Morris began a multi-year campus-wide effort focused on increasing first-year student retention. The three components of the initiative are: conducting a systematic, integrated assessment of the large suite of existing first-year retention efforts; utilizing University system resources to develop and implement a new program and service model to foster student mental health and wellbeing; and making participation in high-impact practices—a hallmark of the Morris experience—more explicit, available, and accessible to first-year students. These efforts jointly address known risk factors and areas of promise for student learning, success, and persistence.

The Morris campus’s recent support for retention, enrichment, and mental health initiatives includes:

• securing a Ronald E. McNair Post-Baccalaureate Achievement Program grant to prepare low-income, first-generation students and students from groups underrepresented in graduate education for doctoral study (2018);
• working with other system campuses to pilot promising mental health programs (including the “Let’s Talk” program and the use of telemedicine for psychiatry services) (2018);
• reconfiguring the Academic Center for Enrichment (ACE) to increase student engagement with high-impact practices (e.g., study abroad, undergraduate research, honors) and integration of career services, including hiring of a full-time ACE director (2018);
• securing system funding to support a new model for engaging students to foster greater mental health and wellbeing (2017);
• appointing a Retention Working Group (2017);
• expanding New Student Orientation from three to four days and adding academic content (2017);
• piloting a student employment initiative based on data showing a ten percent increase in student persistence for those who work on campus in their first year (2016);
• providing student success coaches (piloted 2012–2015 for students from historically underrepresented populations and expanded to all students in 2016);
• creating and implementing the student leadership development program Morris LEADS (2016);
• adding time with faculty academic advisors during Orientation (2016);
• securing a TRiO Student Support Services project to close achievement gaps for first-generation, low-income students (2015);
• creating a Native American Student Success program with U.S. Department of Education grant funds (2015);
• establishing a faculty and staff fellows group to create a Sustainability Leadership certificate (2015);
• enhancing communication materials for new students and their families (2015);
• changing the advisor assignment process for students not yet committed to a major (2015);
• increasing coordination across academic advising, academic assistance, disability services, and retention support by creating the **Office of Academic Success** (2015);
• fostering more personal relationships with peers, advisors, and faculty by implementing **peer mentoring** for first- and second-year students and those most at risk (2013–2015);
• expanding data-analysis capacity by hiring a **Senior Director of Institutional Effectiveness** (2015);
• requiring small classes for all students in their first year through **Writing for the Liberal Arts** (2013) and **Intellectual Community** (2010) programs;
• incorporating more relevant information and activities in **New Student Registration** (2014);
• creation of the **Academic Center for Enrichment (ACE) Council**—faculty advocates for engagement in high-impact practices (e.g., study abroad, undergraduate research, honors) (2014);
• creating a **full-time study abroad advisor** position (2014);
• increasing **academic assistance capacity** (2014);
• increasing **disability resource center** capacity (2013);
• improving advisor training and peer support (**Faculty Master Advisor program**, 2012);
• providing more integrated student support (**One Stop**, established 2012); and
• implementing an **academic alert system** to capture and respond to faculty observations of at-risk student behaviors (2004, enhanced in 2011).

This initiative provides an opportunity to assess the efficacy of these efforts, and results will provide a foundation for enhancing, strengthening, and streamlining the first-year student experience on the Morris campus.

**Comparison Group Institutions**

For planning purposes, the Morris campus has identified 15 higher education institutions as its comparison group (Table 3-3). These comparable and aspirational peer institutions come closest to aligning with the Morris campus’s distinctive identity as a public liberal arts college.
**Table 3-3. Comparison group institutions, Morris campus**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>SIZE</th>
<th>STUDENTS</th>
<th>City Size</th>
<th>Highest Degree Offered</th>
<th>Total Enrollment</th>
<th>Percent Degree-seeking Undergrads</th>
<th>Percent Full-time</th>
<th>Percent In-state</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albion Col.</td>
<td>Private</td>
<td>Small</td>
<td>Bachelor's</td>
<td>1,418</td>
<td>98%</td>
<td>99%</td>
<td>75%</td>
<td></td>
</tr>
<tr>
<td>Coe Col.</td>
<td>Private</td>
<td>Small</td>
<td>Bachelor's</td>
<td>1,406</td>
<td>94%</td>
<td>99%</td>
<td>38%</td>
<td></td>
</tr>
<tr>
<td>Concordia Col.–Moorhead</td>
<td>Private</td>
<td>Mid-Size</td>
<td>Master's</td>
<td>2,132</td>
<td>95%</td>
<td>99%</td>
<td>67%</td>
<td></td>
</tr>
<tr>
<td>DePauw U.*</td>
<td>Private</td>
<td>Small</td>
<td>Bachelor's</td>
<td>2,225</td>
<td>98%</td>
<td>100%</td>
<td>34%</td>
<td></td>
</tr>
<tr>
<td>Gustavus Adolphus Col.*</td>
<td>Private</td>
<td>Small</td>
<td>Bachelor's</td>
<td>2,250</td>
<td>100%</td>
<td>99%</td>
<td>75%</td>
<td></td>
</tr>
<tr>
<td>Kalamazoo Col.*</td>
<td>Private</td>
<td>Mid-Size</td>
<td>Bachelor's</td>
<td>1,443</td>
<td>98%</td>
<td>100%</td>
<td>61%</td>
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</tr>
<tr>
<td>Lycoming Col.</td>
<td>Private</td>
<td>Mid-Size</td>
<td>Bachelor's</td>
<td>1,263</td>
<td>99%</td>
<td>100%</td>
<td>50%</td>
<td></td>
</tr>
<tr>
<td>Macalester Col.*</td>
<td>Private</td>
<td>Large</td>
<td>Bachelor's</td>
<td>2,146</td>
<td>99%</td>
<td>99%</td>
<td>14%</td>
<td></td>
</tr>
<tr>
<td>Mass. Col. of Liberal Arts</td>
<td>Public</td>
<td>Small</td>
<td>Master's</td>
<td>1,644</td>
<td>86%</td>
<td>89%</td>
<td>66%</td>
<td></td>
</tr>
<tr>
<td>St. Mary's Col. of Maryland</td>
<td>Public</td>
<td>Small</td>
<td>Master's</td>
<td>1,629</td>
<td>97%</td>
<td>98%</td>
<td>93%</td>
<td></td>
</tr>
<tr>
<td>St. Olaf Col.*</td>
<td>Private</td>
<td>Small</td>
<td>Bachelor's</td>
<td>3,040</td>
<td>98%</td>
<td>100%</td>
<td>42%</td>
<td></td>
</tr>
<tr>
<td>SUNY at Purchase Col.</td>
<td>Public</td>
<td>Small</td>
<td>Master's</td>
<td>4,156</td>
<td>94%</td>
<td>93%</td>
<td>81%</td>
<td></td>
</tr>
<tr>
<td>U. of Virginia's Col. at Wise</td>
<td>Public</td>
<td>Small</td>
<td>Bachelor's</td>
<td>2,212</td>
<td>62%</td>
<td>93%</td>
<td>92%</td>
<td></td>
</tr>
<tr>
<td>U. of Maine–Farmington</td>
<td>Public</td>
<td>Small</td>
<td>Master's</td>
<td>2,000</td>
<td>88%</td>
<td>94%</td>
<td>82%</td>
<td></td>
</tr>
<tr>
<td>U. of Minnesota–Morris</td>
<td>Public</td>
<td>Small</td>
<td>Bachelor's</td>
<td>1,771</td>
<td>95%</td>
<td>96%</td>
<td>84%</td>
<td></td>
</tr>
<tr>
<td>U. of N.C.–Asheville</td>
<td>Public</td>
<td>Large</td>
<td>Master's</td>
<td>3,821</td>
<td>91%</td>
<td>90%</td>
<td>85%</td>
<td></td>
</tr>
</tbody>
</table>

*Aspirational peer institutions

1 Fall 2016 enrollment, Total Enrollment includes non-degree-seeking students.
2 Fall 2016 percentage of total enrollment composed of degree-seeking undergraduate students.
3 Fall 2016 percentage of degree-seeking undergraduate students who are enrolled full time.
4 Fall 2016 percentage of first-time students who are state residents; residency is required reporting biennially in even years.

Source: Integrated Postsecondary Data System
Crookston Campus

**Founded**
1905—Northwest School of Agriculture
1966—University of Minnesota Crookston

**Campus Leadership**
Mary Holz-Clause, Chancellor

**Departments**
Agriculture and Natural Resources
Business
Liberal Arts and Education
Math, Science and Technology

**Degrees/Majors Offered**
34 undergraduate degree programs; 16 online majors;
2 academic programs offered in China

**Student Enrollment (Fall 2018)**
Undergraduate 1,834 (65%)
Non-degree 976 (35%)
Total 2,810

**Employees (Fall 2018)**
Direct Academic Providers 133 (42%)
Higher Education Mission Support 62 (20%)
Intercollegiate Athletics 26 (8%)
Facilities-Related Jobs 25 (8%)
Organizational Support 59 (19%)
University Leadership 9 (3%)
Total Employees 314

**Degrees Awarded (2017–18)**
Bachelor’s 405

**Campus Physical Size (2018)**
Number of Buildings 41
Assignable Square Feet 482,174

**Budget Expenditures (FY2018)**
$43 million
Planning at the University of Minnesota Crookston

In 2017–2018, Crookston continued a strategic planning process that aligns with its commitment to continuous improvement and focuses on planning for strategic opportunities emerging from real-time situations. Three key documents—Future Business Model, Institutional Identity Statement, and Strategy Screen—are used to define and select strategic priorities aligning with the mission, vision, and values of the institution. To that end, much of the year was spent refreshing Crookston's mission statement and updating the vision and values of the institution. Students, faculty, staff, alumni, community members, and other stakeholders were invited to complete the statement “Imagine a University of Minnesota Crookston that….” Themes from these conversations were compiled to create new vision and values statements that were vetted through the same groups.

Crookston’s mission remains the same, however the wording of the statement was refreshed:

The University of Minnesota Crookston delivers educational programs that build upon a broad academic foundation and combine theory, practice, and experimentation in a technologically rich environment. We prepare students for career success, advanced study, and engaged citizenship in a diverse world. We integrate teaching and learning, research and scholarly work, and outreach and engagement to serve the public good.

The updated vision and values provide a new sense of direction for future Crookston planning.

Vision

Envision a University of Minnesota Crookston that fulfills its modern land-grant mission by ensuring we are passionate about learning and discovery to serve the public good. We will achieve this vision by:

- Conducting research and scholarly work that enhance learning and benefit the region and beyond.
- Cultivating a spirit of UMC and Golden Eagle pride.

Values

- **Student Success:** Realizing individual potential through personal attention, mentorship, high-impact teaching and learning, and encouraging self-discovery
- **Diversity:** Embracing the richness and value of individual differences, ideas, cultures, and communities
- **Leadership:** Making a difference while serving others with integrity, honesty, fairness, and respect
- **Community:** Building relationships with each other and our neighbors for the benefit of all
- **Innovation:** Promoting discovery and problem solving through creative and critical thinking, research, and scholarly work
- **Sustainability:** Making choices that meet the environmental, economic, and societal needs of the present while safeguarding a vibrant future
- **Continuous Improvement:** Using evidence, data, and best practices to improve academic programs, student support and services, and business and operational processes

Institutionalized Strategic Initiatives

In 2017, Crookston retired its strategic initiative around community engagement. The Crookston Campus-Community Connection (C4) initiative that began in 2015 continues to thrive and serves as a vehicle for campus-community relationship building. A formal planning board—consisting of the Crookston chancellor and the mayor of the city of Crookston as well as business and community leaders, students, faculty, and staff—meets regularly to plan and coordinate events and exchange information in an effort to build the town-gown relationship. Dine Around Town, College Town Forums, and Maroon and Gold Fridays are a few examples of C4’s successful work.
The Crookston campus is close to retiring its Employee Engagement strategic initiative designed to enhance development and leadership opportunities for faculty and staff, a need identified within the E2 Employee Engagement survey results. An ad-hoc committee plans content applicable to both faculty and staff for the two employee professional development days scheduled on the Crookston calendar. In addition, campus employees interested in developing leadership skills may apply to participate in the UMC Leadership Academy, a year long, cohort-based program that consists of four half-day core sessions led by the University’s Extension. Additionally, participants choose ten hours of elective leadership content customized to fit their desired program outcomes. Sixteen employees completed the program in 2017–2018; an additional 15 will participate in the 2018–2019 academic year.

Enrollment Management
Over the past five years, a primary goal of campus strategic planning has been to achieve a critical mass of on-campus students while strategically growing online enrollment. While overall enrollment remains flat, a trend of declining on-campus enrollment is concerning. The campus has capacity for growth, and is working to reverse the on-campus trend. In fall 2018, work began to move away from a traditional admissions office model to a more comprehensive enrollment management model, creating a home for recruitment as well as retention of students. Selective investment is going to be made in academic programs that are unique, distinctive, and have capacity to grow; marketing dollars made available will be targeted toward those areas.

Crookston begins its third year of the four-year Persistence and Completion Academy sponsored by the Higher Learning Commission. Work from the first two years of the Academy led Crookston to discover that moving away from its traditional ACT-based admission criteria to a more holistic approach will allow for better selection of students fit for success at the campus. In an effort to support all incoming students, three pilot first-year experience courses were in place for fall 2018. Through the work of the Academy, faculty will develop and deploy by fall 2019 a required first-year experience course that will create a shared student experience and a more smooth transition to college-level work for all freshmen.

The campus has also developed a predictive model to project enrollments earlier, leading to more accurate budget building, and has assigned additional data responsibilities to ensure a single source for connecting recruitment information from all data sources.

Online enrollment continues to grow, primarily serving adult learners in the workforce who wish to complete a baccalaureate degree. With the fall 2018 addition of the Agricultural Business program, the campus is now offering its first agricultural degree in an online format.

Diversity, Equity, and Inclusion
Recognizing the importance of preparing students for the highly diverse world into which they will be graduating, the Crookston campus is—with increased intentionality—integrating diversity, equity, and inclusion into campus conversations and programming, with a goal to close the graduation rate gap between students of color and white students while increasing the graduation rate for all students.

In 2017–2018, a task force studied the investments necessary for Crookston to serve and recruit the increasing numbers of Latinx populations graduating from area high schools in the near future. The task force recommendations included Crookston being able to provide Spanish-speaking faculty and staff, translating publications to enable recruitment and support of this population, programming involving the Latinx culture, and continued outreach to the Latinx community. An estimated $100,000 annual investment would be required to achieve the task force recommendations, and UMC is looking for grant opportunities to further this work. In the meantime, UMC is beginning to explore partnerships with local K-12 education providers to support the region’s Latinx populations.

Additionally, the campus has partnered with the Red Lake Nation on a dual enrollment agreement to direct students completing an associate’s degree at Red Lake Nation College to Crookston’s four-year degree programs. Ongoing conversations are focused on how
faculty at the two institutions might collaborate on research initiatives.

**UMC Spirit and Golden Eagle Pride**
A surprising theme emerged as the campus held open forums to define a new vision for the institution: the desire among all constituency groups to build a stronger sense of school spirit and institutional pride. Golden Eagle Athletics is beginning this work by initiating a student group, “The Flock,” initiating use of a phone app to push events and revising the Teambacker tailgates to encourage greater alumni and community engagement. Faculty and staff receive frequent “Points of Pride” so they can be better informed and communicate the many assets found at Crookston. Institutionally, there is a renewed emphasis on outreach to the community with respect to campus arts performances, and the campus will be working to expand the success of “Maroon and Gold Friday” beyond the Crookston community.

**Research Infrastructure**
Significant dollars have been invested to expand campus infrastructure to support faculty and undergraduate researchers. Spring 2018 saw the opening of the Center for Collaborative Research, the first self-contained laboratory facility on the Crookston campus allowing work in analytical chemistry, microbiology, and molecular/cellular biology to be carried out from start to finish. The campus-funded space, which is vital to faculty research involving undergraduate students, is already advancing study of the relationship between the existence of freshwater sponges and water quality.

The 2018 Minnesota state capital investment bill included $3.2 million for the Crookston campus, allowing for optimization of lab facilities in Dowell Hall to support STEM education, computational research, and teacher education; and renovation of Owen Hall chemistry and biology labs, which will modernize flexible bench space and support independent undergraduate research.

Additional money allocated to the campus will be used to increase capacity for external grant application writing. Grants will advance the scientific research of students and faculty, along with creative works and research in the social sciences. Recent student research has looked at the impact of social media on relationships and on student grade point average.

**Comparison Group Institutions**
For planning and assessment benchmarking, Crookston has identified eleven institutions similar in academic program mix, enrollment and student profile, and in a relatively rural setting (Table 3-4).
<table>
<thead>
<tr>
<th>TYPE</th>
<th>SIZE</th>
<th>STUDENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Institutional Control</td>
<td>City Size</td>
<td>Highest Degree Offered</td>
</tr>
<tr>
<td>Indiana U.–Kokomo</td>
<td>Public Small</td>
<td>Master’s</td>
</tr>
<tr>
<td>Lake Superior State U.</td>
<td>Public Small</td>
<td>Doctoral</td>
</tr>
<tr>
<td>Northern State U.</td>
<td>Public Small</td>
<td>Master’s</td>
</tr>
<tr>
<td>Northwest Missouri State U.</td>
<td>Public Small</td>
<td>Master’s</td>
</tr>
<tr>
<td>Northwestern Oklahoma State U.</td>
<td>Public Small</td>
<td>Master’s</td>
</tr>
<tr>
<td>Southwest Minnesota State U.</td>
<td>Public Small</td>
<td>Master’s</td>
</tr>
<tr>
<td>SUNY Col. of A&amp;T at Cobleskill</td>
<td>Public Small</td>
<td>Bachelor’s</td>
</tr>
<tr>
<td>U. of Tennessee–Martin</td>
<td>Public Small</td>
<td>Master’s</td>
</tr>
<tr>
<td>U. of Minnesota–Crookston</td>
<td>Public Small</td>
<td>Bachelor’s</td>
</tr>
<tr>
<td>U. of Pittsburgh–Johnstown</td>
<td>Public Small</td>
<td>Bachelor’s</td>
</tr>
<tr>
<td>U. of Wisconsin–Platteville</td>
<td>Public Small</td>
<td>Master’s</td>
</tr>
<tr>
<td>U. of Wisconsin–River Falls</td>
<td>Public Small</td>
<td>Master’s</td>
</tr>
</tbody>
</table>

1Fall 2016 enrollment. Total Enrollment includes non-degree-seeking students.
2Fall 2016 percentage of total enrollment composed of degree-seeking undergraduate students.
3Fall 2016 percentage of degree-seeking undergraduate students who are enrolled full time.
4Fall 2016 percentage of first-time students who are state residents; residency is required reporting biennially in even years.

Source: Integrated Postsecondary Data System
Rochester Campus

Founded
2006

Campus Leadership
Lori J. Carrell, Chancellor

Campus Academic Programs
Health Professions
Health Sciences
Biomedical Informatics and Computational Biology

Degrees/Majors Offered
One baccalaureate degree offered in two academic programs
One master’s degree offered in one academic program
One doctoral degree available in one academic program

Academic Partnerships
School of Nursing, UMTC
Occupational Therapy, UMTC

Educational Collaborations
College of Science and Engineering, UMTC
Labovitz School of Business and Economics, UMD
Mayo Clinic School of Health Sciences

Biomedical Informatics and Computational Biology Partnerships
UMTC, Hormel Institute, Mayo Clinic, IBM,
National Marrow Donor Program, Brain Sciences Center

Student Enrollment (Fall 2018)
Undergraduate 519 (83%)
Partnerships, Graduate & Professional 202 (15%)
Non-degree 14 (2%)
Total 723

Employees (Fall 2018)
Direct Academic Providers 40 (42%)
Fellows, Trainees, and Students in Academic Jobs 4 (4%)
Higher Education Mission Support 27 (28%)
Facilities-Related Jobs 1 (1%)
Organizational Support 17 (18%)
University Leadership 7 (7%)
Total Employees 96

Degrees Granted (2017–18)
B.S. (Health Sciences) 58
B.S. (Health Professions) 27
M.S. and Ph.D. (Biomedical Informatics and Computational Biology) 8

Campus Physical Size (2018)
Number of Buildings 3
Assignable Square Feet 154,593
Land for Future Campus 3.1 acres

Budget Expenditures (FY2018)
$18 million

1 All-University graduate degrees granted by the Twin Cities campus with the administrative home on the Rochester campus.
2 All buildings are leased.
Planning at the University of Minnesota Rochester

As the Rochester campus enters a new stage of growth, planning efforts are also transitioning. The availability of student success data and delineation of processes and organizational structure has allowed the campus to quickly stabilize efforts and enhance growth planning. While a comprehensive, long-range planning process for scaling the Rochester campus was launched in fall 2018, the recently completed campus strategic plan was shaped by established anchors and initiated by clarifying the grounding values, centering aspirations, and strategic priorities.

Grounding Values
• Respect
• Human potential
• Community
• Diversity and inclusiveness
• Evidence-based decision making

Centering Aspirations for Strategic Planning
• Devote expertise and energy to student learning and development
• Generate transformative contributions to the renewal of higher education
• Enhance the diversity of the healthcare workforce
• Optimize the established arenas of distinctiveness
• Sustain UMR as an innovative educational enterprise
• Contribute significantly to the continued development of the Rochester community

The recently completed campus strategic plan is being enacted, with tactical goals assigned to responsible parties for the current academic year. The first step in UMR’s strategic planning endeavor was to formulate a five-year Enrollment Management Plan. That plan for enrollment growth has since informed and influenced all other subsequent planning efforts. The core components of the enrollment plan include recommendations for:
• sustaining consistent undergraduate enrollment growth over the next five-year period;
• admitting students for success;
• maintaining affordability and access for Minnesota students;
• providing a high-quality, evidence-based education and student development experience with an anticipated increase in retention;
• valuing ethnic, social, economic, cultural, and geographic diversity;
• supporting timely graduation; and
• contributing to and cooperating with system enrollment management planning (embedded in the emerging Systemwide Strategic Plan).

Through 2021, the Rochester campus is working to expand total enrollment in its two undergraduate health sciences degree programs—Bachelor of Science in Health Professions (BSHP) and Bachelor of Science in Health Sciences (BSHS)—by 50 students per year, through recruitment and retention. The campus has been meeting this goal and is expected to continue this growth through the end of the current enrollment management plan period, with a demand for increased lab-classrooms met by campus occupation of Discovery Square and continued pressure in housing and human resources. The campus’s current capacity, with no increase in state allocation or tuition, is lower than the healthcare industry’s workforce demand in the southeast region and across the state.

Even as the current campus strategic plan is enacted during academic year 2018–2019, a long-range plan is under development to scale the campus significantly with a phased approach to funding that expansion. Current tactical priorities include adding a development staff person and launching a development plan, while pursuing alternate funding mechanisms in an environment of declining resources for public higher education. Other priorities in progress as identified in the campus strategic plan include:
• Academic Innovation and Optimization
• Alumni
• Campus Master Planning
• Community Engagement and Partnerships
• Diversity and Inclusion
• Enrollment Management
• Fiscal Planning
• Healthy Campus Community
• Marketing and Branding
• Operations and Emergency Planning

To date, the timeline and activities for the campus strategic planning process have been:

• The Enrollment Management Plan was completed by the UMR Enrollment Management Team in academic year 2015–2016.

• The UMR Strategic Plan Framework was completed in academic year 2015–2016, with vision, grounding values, arenas of distinctiveness, and centering aspirations.

• The UMR Growth Planning Process was completed in academic year 2016–2017, adding strategic decision-making principles and key priorities.

• Tactical planning and completion of the overall UMR Strategic Growth Plan was completed in academic year 2017–2018.

• Finalization of the plan in summer 2018.

Forthcoming, the campus expects the planning process to include:

• Alignment of the campus plan with the University’s Systemwide Strategic Plan, awaiting Board of Regents decisions and direction in this presidential transition year.

• Launch of a long-range planning process to scale the Rochester campus, even as the current campus strategic plan is enacted.
Education

Providing an extraordinary education that generates knowledge, understanding, and creativity. We seek to develop students who become leading scientists and teachers, engineers and artists, and health and business professionals, and who contribute to their communities at every level.
The University is committed to being accessible to a wide range of populations, attracting outstanding students, offering an exceptional education, and graduating students prepared for success.

The University has been able to show increasing success with each of these priorities over the years. What may be just as important, however, are the reasons why University leaders identify these areas as priorities. Why, for example, does the University provide financial aid support to students from low-income and middle-income families? Why is it important that more and more high-ability Minnesota students are choosing to enroll at the University instead of leaving the state? Why is it important that the four-, five-, and six-year undergraduate graduation rates are significantly higher on every campus than they were ten years ago?

The answer is that success on each of these fronts is evidence of success toward achieving the University’s mission.

An education at the University of Minnesota prepares students to be leaders, innovators, and global citizens. It is crucial that students who have the ability to benefit from the University’s opportunities have access to the University.

The better the student learning experience, the better chance that students will have to succeed. Higher graduation rates are important because they demonstrate that more students have been empowered to make the contributions to society that the University’s mission envisions.

The discussions of undergraduate, graduate, and professional programs on the following pages demonstrate the importance the University and its campuses place on providing an extraordinary education. While much of this discussion, particularly that at the undergraduate level, is best considered campus by campus, there are several priorities and measures that the University monitors at a holistic or system level. Among these are the four-year graduation rates of Pell-awarded students, the amount of institutional gift aid available to students, the median undergraduate debt at graduation, the percent of Minnesota students enrolled, and the number of national scholarship awards earned by University undergraduates.

The percentage of first-time, full-time new entering freshmen who received need-based federal Pell grants their first year and graduated within four years is an important consideration because these students, who are often also first-generation college students, may have challenges that impede their success at the University. Ideally these students would graduate at the same rate as the whole student body, but that is not the case at the University nor at most other institutions across the country. As a result of support efforts targeting these and other students, this rate has risen from 43.9 percent for the cohort entering in 2010 to 53.6 percent for the cohort entering in 2014 (Progress Card Measure). The University’s goal is for 54 percent of the 2017 cohort of Pell-awarded students to graduate within four years, which would increase their graduation rate at twice the rate of the growth anticipated for the student body overall.

The University has a historical commitment to making education affordable to students and thus monitors the amount of institutional gift aid awarded to students across all of the campuses. This amount includes U Promise scholarships, admissions scholarships, collegiate and department scholarships, athletic scholarships, Regents scholarships, and graduate assistant tuition benefits, but excludes state or federal grants, student employment, and loans. To maintain its commitment to affordable education, the University seeks to increase its available gift aid through fundraising and institutional resources. Total
institutional gift aid has grown from $216 million in 2012–13 to $260 million in 2016–17 (Progress Card Measure). The University’s goal of awarding $275 million of gift aid in 2021 represents a three-percent annual increase.

Also related to the commitment to affordable education, the University monitors the median amount of student debt accumulated by undergraduates (not including students who have no debt) at the time of their graduation. The median amount for graduating students in 2016–17 was $24,268, down from $24,880 in 2012–13 (Progress Card Measure). While many factors—such as federal and state financial aid policies, program choice, time to degree, and student and parent behaviors and choices—shape this measure, the University’s goal is to limit the increase in the median amount of cumulative debt for undergraduates with debt to no greater than the consumer price index, with adjustments according to state and federal policy changes. The percentage of University undergraduates with no debt at their time of graduation has increased from 35 percent in 2013–14 to 40 percent in 2017–18. The total amount of funding for graduate assistants, fellows, and trainees during fiscal year 2018 was $184,019,746, a 1.9 percent increase over the previous year and an increase of 14.5 percent over five years.

As the state’s flagship land- and sea-grant institution, it is important that the University serves the students of Minnesota. Over the years, the percent of Minnesota high school graduates among both new entering and all undergraduate students throughout the University system has remained consistently high. In 2017, 69.4 percent of the new entering class and 70.6 percent of the whole undergraduate student body came from Minnesota high schools (Progress Card Measure). The goal is to maintain this rate of access to the University for Minnesota high school graduates. The number of graduate students who self-identified as students of color (American Indian, Asian, Black, Hawaiian, or Hispanic) has grown from 1,584, or 11.3 percent, in 2012 to 1,823, or 14.3 percent, in 2017.

Similarly, the University measures its share of the portion of recent Minnesota public high school graduates who enroll at a Minnesota postsecondary institution. In 2017, the portion was 19.6 percent compared to 13.9 percent in 2012 (Progress Card Measure). The University’s goal is to maintain this level of access and be an option of excellence and affordability for Minnesota high school graduates who choose to pursue their postsecondary education in state.

Finally, the University tracks at a system level the number of prestigious national awards annually earned by University undergraduate students. This measure gives some indication of the University’s engagement and excellence on a national scale in a wide variety of fields and expertise. The measures includes seven leading student awards: the Beinecke, Churchill, Truman, Rhodes, Fulbright, Goldwater, and Astronaut awards. From 2010–15, University students earned 75 of these awards, which is up from 52 from 2005–10, and 31 in 2000–05 (Progress Card Measure). The University’s goal is to have 80 students earn these awards from 2015–2020. In the past year, 28 new graduate students were awarded National Science Foundation Fellowships, one graduate student received a CIC/Smithsonian Fellowship, and, during 2016–2017, the University was named a “Top Fulbright Producing University.”
Undergraduate Education

TWIN CITIES CAMPUS

The University’s commitment to the success of undergraduate students begins with outreach to prospective students and extends through recruitment, enrollment, orientation, academic advising, career services, graduation, and beyond. The University attracts outstanding undergraduate students, is accessible to diverse students with a range of backgrounds, and provides a world-class educational experience. Graduates are equipped with the intellectual tools to be productive employees, thoughtful citizens, and creative leaders engaged with the collective challenges we face as a society.

The foundational principles for developing enrollment targets for new first-year and new transfer students on the Twin Cities campus over the past two decades have included admitting students who will benefit from the curriculum and who have a strong probability of graduating in a timely manner; providing a high-quality education and student experience; remaining affordable to a broad cross-section of students; incorporating ethnic, social, economic, and geographic diversity; enrolling new high school and transfer students; and providing students with the opportunities and benefits of attending a world-class research institution.

In spring 2016, the Board of Regents approved the 2016–2021 undergraduate enrollment plan for the Twin Cities campus, which outlined ten enrollment management strategies in support of institutional priorities, including meeting the goals identified in the University Progress Card:

1. Plan for modest undergraduate growth over the next five-year period. Increase total undergraduate enrollment from 30,500 (fall 2015) to approximately 32,000 to 33,000.

2. Admit for success. Continue to admit those students who will benefit from the University’s rigorous curriculum and who have a strong probability of graduating in a timely manner. Continue holistic review of prospective students’ records and maintain appropriate levels of selectivity. Maintain an average ACT of 28 or higher for the entering freshman class.

3. Maintain affordability and access for Minnesota students. One measure of affordability is average student indebtedness at graduation. Access can be measured by the percent of all Minnesota high school graduates who enroll at the Twin Cities campus as freshmen, and by the percentage of Minnesota high school graduates who choose to attend college in Minnesota and enroll at the Twin Cities campus. Attract a broad cross-section of students from all parts of Minnesota.

4. Provide a high-quality education and student experience. Adjust enrollment levels within the capacities of financial, intellectual, and physical resources, with the goal of providing a very high-quality experience. Resources include housing, advising, classrooms, capacity for chemistry courses, student support services, and co-curricular activities. Measure student satisfaction and learning for all students. Measure progress toward “inclusive success” for students of color via annual surveys. One measure of academic excellence in comparison to peers is the number of competitive national scholarships awarded to University of Minnesota students.

5. Maintain commitment to transfer students. Enroll a balance of new high school students and transfer students. Facilitate transfer among the University of Minnesota campuses, as well as from institutions in the Minnesota State system. Continue to enroll at least 33 percent of new Twin Cities students as transfer students. Achieve a 65 percent three-year graduation rate for transfer students.
6. Value ethnic, social, economic, and geographic diversity. Enhance the educational experiences of all students through interactions with students from different backgrounds, other states, and other countries. Attract a broad range of undergraduate students and serve as a talent magnet for the state. Attract, retain, and graduate students from multicultural backgrounds.

7. Support timely graduation. Ensure that students admitted to the Twin Cities campus are adequately supported to graduate in a timely way. Link financial aid strategies and enrollment management strategies. The Twin Cities four-year graduation rate for New High School (NHS) students should reach/exceed 65 percent and the six-year rate should reach/exceed 82 percent; the three-year transfer graduation rate should reach/exceed 65 percent; the four-year graduation rate for Pell-recipient students should reach/exceed 54 percent. Maintain recent gains in the Graduation Success Rates (GSR) for student-athletes. Increasing graduation rates for all students, and specifically the rates for students of color, are also legislative performance measures.

8. Adjust enrollment levels and set tuition rates to provide revenues. Adjust enrollment levels and set tuition rates to provide adequate revenue to support high-quality educational programs within the overall mission of the campus.

9. Continue to enhance need-based and merit-based financial aid programs. Continue to provide need-based (including middle-income) and merit-based financial aid. The general allocation of financial aid resources should be biased toward need-based financial aid, but strong merit-based scholarships are also needed to attract the best and brightest students. Grow institutional gift aid to $275 million.

10. Be attentive to state, national, and global workforce needs. Be attentive to the workforce needs of the future for the state, the nation, and the world. Increase the number of STEM graduates (a legislative performance measure).

Maintaining Access to the Twin Cities Campus

The University maintains a strong commitment to access to its degree programs—for Minnesota resident students, for students from a range of economic backgrounds, for students of color, and for first-generation students. Strategies to ensure access include targeted recruitment; holistic, need-blind review for admissions; and linking tuition strategies with financial aid strategies and enrollment management strategies.

Financial Accessible
As a public institution, the University supports access for qualified students. Review of applicants for undergraduate admissions is need-blind, meaning that a student’s ability to pay is not a factor in determining admissibility. The University funds and administers a comprehensive financial aid program targeted to degree-seeking students and tailored to each student’s circumstances, including merit-based aid to attract and support high-achieving students and need-based aid to maintain access for many talented students who otherwise would not be able to attend the University.

Total financial support to Twin Cities undergraduate degree-seeking students over the past two years is summarized in Table 4-1. The decrease in the total amount of loans over that period is notable, as is the shift of the proportion of total aid to include more gift aid and less loan aid. As shown in Table 4-2, trends over the past five years are moving in the right direction; the proportion of graduates with no debt is increasing, and the average amount of loan debt for those who have debt is stable.

One measure of financial accessibility is the percentage of students who are low-income, defined as federal Pell Grant recipients. In fall 2018, 18 percent of all degree-seeking students enrolled on the Twin Cities campus were Pell recipients. Looking at specific groups of students: Minnesota resident students, 23 percent; freshmen, 17 percent; new transfer students, 27 percent. Another measure is the percentage of first-generation college students, defined as neither parent having completed a college degree. In fall 2018, 26 percent of all degree-seeking students on the
Table 4-1. Total financial support to Twin Cities campus undergraduate degree-seeking students, 2016–17 and 2017–18

<table>
<thead>
<tr>
<th>Aid Category</th>
<th>Aid Year 2016–17</th>
<th>% of total</th>
<th>Aid Year 2017–18</th>
<th>% of total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gift Aid (scholarships, grants)</td>
<td>$147,935,320</td>
<td>41%</td>
<td>$156,172,793</td>
<td>42%</td>
</tr>
<tr>
<td>Student Employment (including Work Study)</td>
<td>$27,688,695</td>
<td>8%</td>
<td>$27,668,781</td>
<td>7%</td>
</tr>
<tr>
<td>Loans (student and parent loans)</td>
<td>$168,454,230</td>
<td>47%</td>
<td>$169,541,899</td>
<td>46%</td>
</tr>
<tr>
<td>Waivers</td>
<td>$17,251,194</td>
<td>5%</td>
<td>$18,357,696</td>
<td>5%</td>
</tr>
<tr>
<td>Total</td>
<td>$361,329,439</td>
<td>100%</td>
<td>$371,741,169</td>
<td>100%</td>
</tr>
</tbody>
</table>

Source: Office of Institutional Research, University of Minnesota

Twin Cities campus were first-generation. Looking at specific groups of students: Minnesota resident students, 30 percent; new freshmen, 22 percent; new transfer students, 40 percent.

Recognizing the pressures faced by middle-income families, the University continues its commitment to provide financial aid through the U Promise program, which provides aid to nearly 13,000 Minnesota undergraduates systemwide. The program provides funding to families making up to $120,000.

To assist Twin Cities campus students and their parents with managing the costs of college, the University has increased financial literacy efforts, including the “Live Like a Student Now So You Don’t Have to Later” campaign. This program was recognized by then-President and First Lady Obama at the January 2014 College Opportunity Summit in Washington, D.C.

Welcome Week for new students includes a workshop on money management, and One Stop Student Services now has counselors certified in financial wellness who conduct workshops for students and meet with students one-on-one. The One Stop website includes money management resources. A key point of the financial literacy messaging is that graduating in a timely manner is one of the best ways for students to manage the costs of their education.

Accessible to Transfer Students

Educating transfer students is an important part of the University’s service to the state, particularly for the Twin Cities campus, as the flagship of the system, because it offers many undergraduate majors not available elsewhere in the state. Of the 9,208 new students enrolling on the Twin Cities campus in 2017–2018, 6,214 were freshmen and 2,994 (33 percent) were transfer students from outside the University. Over 38 percent of these new transfer students come from Minnesota State institutions.

Transfer students add to the diversity of the Twin Cities campus. When compared with those who enter as freshmen, transfer students include proportionately higher numbers of first-generation students, African-American students, Hispanic students, American Indian students, international students, and older-than-traditional-college-age students. The University admits transfer students who can be successful in completing a degree program, and considers students for transfer admission after they have a record of success in one or more years of college courses that are transferable to the campus. Over the past decade,

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<tbody>
<tr>
<td>% of Bachelor’s Degree Recipients with no student debt</td>
<td>39%</td>
<td>40%</td>
<td>43%</td>
<td>43%</td>
<td>44%</td>
</tr>
<tr>
<td>Average loan debt for those with debt</td>
<td>$26,406</td>
<td>$26,091</td>
<td>$26,068</td>
<td>$25,994</td>
<td>$25,573</td>
</tr>
<tr>
<td>Median loan debt for those with debt</td>
<td>$24,433</td>
<td>$24,000</td>
<td>$23,318</td>
<td>$23,009</td>
<td>$22,760</td>
</tr>
</tbody>
</table>

Source: Office of Institutional Research, University of Minnesota

Federal, state, institutional, and/or private student loans are included in these calculations for any undergraduate studies within the University of Minnesota system. Any student loan certified by or reported to the University is included in these statistics. Other debt instruments, such as a personal line of credit, home equity line of credit, Parent PLUS loan, or loans from family/friends are not included in these statistics.
the three-year graduation rate for transfer students (Progress Card Measure) has improved from 52.1 percent (students entering in 2005) to 63.8 percent (entering in 2015). Of the 7,811 undergraduate degrees awarded in 2017–18, 34 percent were awarded to students who had transferred to the campus.

Accessible to Diverse Students

The University is committed to achieving excellence with a diverse student body and to maintaining a respectful, welcoming environment for all students. This commitment encompasses diversity in many forms, including geographic origin, racial-ethnic background, sexual orientation, gender identity, culture, disability, veteran status, and socio-economic background. After several years of relative stability, the University has observed a troubling decline in measures related to students’ sense of belonging for all students, but especially for students of color as indicated on the SERU survey (Progress Card Measure). The University’s commitment to improving the campus environment for all students is highlighted on the Campus Climate website, which lists a wide range of initiatives and improvements, including the Student Climate Advisory Committee, the Commuter Connection, and the Multicultural Student Engagement unit within Student Affairs.

Over 700 veterans are now enrolled on the Twin Cities campus as degree-seeking undergraduates. The University Veterans Services Office assists them with admissions processes; transitioning from military life to the role of a student; certifying, applying, and qualifying for veterans benefits; processing military leaves for those called to active duty; and connecting with campus opportunities and resources.

From fall 2017 to fall 2018, the number of undergraduates of color on the Twin Cities campus increased from 7,111 to 7,464 (from 22.5 percent to 23.7 percent). The number of international students decreased from 2,816 to 2,620 (from 8.9 percent to 8.3 percent). For fall 2018, the percentage of undergraduate students from Minnesota was 66.1 percent. Students from 47 states, plus Washington, D.C., and the American Virgin Islands, and from 88 countries were among the 31,455 undergraduates.

While the percentage of Minnesota students has been relatively consistent, there have been some shifts in the geographic origin of other U.S. students. The percentage of students from reciprocity states (Wisconsin, North Dakota, and South Dakota) has decreased, while the percentage from other states and outside the United States has increased. The increase in the numbers of students from other regions of the United States and from other countries reflects the University’s commitment to enhancing the campus community through the inclusion of young people from differing countries, backgrounds, religions, and experiences.

Attracting Outstanding Students to the Twin Cities Campus

High-ability students increasingly seek to attend the University of Minnesota Twin Cities, as evidenced by the growing numbers of applications and the student preparation metrics of the incoming freshman class. Applications for admission have increased by nearly 50 percent over the past decade, from 29,159 prospective students seeking admission for fall 2008 to 43,441 for fall 2018. During that same time period, the average ACT for the new freshman class has improved significantly, from 26.2 to 28.4 (Progress Card Measure).

The increased number of applicants can be attributed to a growing awareness by prospective students and their families of the many improvements in undergraduate education on the Twin Cities campus. The academic preparedness of first-year students and the diversity among those students enrich the classroom experience and the campus social environment. Enhanced national recruitment efforts have helped to offset the declining numbers of Minnesota high school graduates, increase the geographic diversity of the student body, and bring workforce talent into the state. The fall 2018 freshman class includes students from 40 states and 38 countries.

The President’s Emerging Scholars (PES) Program is a merit-based scholarship and student success program. Participants are selected based on a holistic review conducted by the Office of Admissions. PES students are selected based on strong academic and extracurricular excellence, and significant community
engagement. These scholars are accomplished, involved, and resilient. PES scholars are also diverse—many are the first member of their families to attend college, Pell Grant recipients, or students of color. This program invites approximately 500 students to participate in the program each year and the program involves scholarship funding and significant programming and campus engagement.

The University Honors Program attracts high-achieving students who have chosen to attend the Twin Cities campus over some of the nation’s most selective institutions. The 2,279 students in the Honors Program benefit from a challenging, interdisciplinary approach, with rigorous honors courses and co-curricular experiences that draw on the expertise of faculty and staff across the comprehensive range of disciplines on campus. The profile of the 555 new fall 2018 Honors students showed an average ACT of 33.1 and average high school rank of 97.2 percent.

In 2017, the Land-Grant Legacy Scholarship Program was conceived by the College of Food, Agricultural and Natural Resource Sciences and the Office of Undergraduate Education to support the University’s commitment to Minnesota residents and access for Minnesota students. This initiative aims to attract and retain more students from Greater Minnesota and includes programmatic elements designed to support students during their time at the University and to build community. This initiative, which also includes a financial scholarship, will serve as a pilot on which to expand into other colleges.

Offering a Great Student Experience on the Twin Cities Campus

The Twin Cities campus undergraduate educational experience is special because of the campus’s unique position in the world of public higher education:

- As the state’s only research university and one of the very best research universities in the nation.
- As the state’s public land-grant university.
- Located in the state capital, which provides many opportunities for internships with state agencies.
- Situated in a vibrant metropolitan area, with remarkably beautiful parks, lakes, and rivers; a lively social and cultural environment; and many Fortune 500 companies.

The University leverages these attributes to provide undergraduates with a world-class learning environment and student experience. The University is one of the most comprehensive in the world, offering 150 baccalaureate degree programs in a wide range of areas: astrophysics, product design, child psychology, American Indian studies, entrepreneurial management, biomedical engineering, and music performance, to name just a few. Many students take even greater advantage of this breadth of opportunity by double-majoring or by completing a minor. The 135 minors offered include traditional disciplinary areas such as art history, biology, and mathematics, as well as emerging and interdisciplinary areas such as water science, family violence prevention, business law, social justice, and sustainable agriculture.

As part of achieving the vision of the Twin Cities Campus Strategic Plan—to be preeminent in solving the grand challenges of a diverse and changing world—exciting new Grand Challenge Curriculum (GCC) courses are now offered to undergraduates. The first GCC courses were developed and offered in 2015–16. These courses bring a solution-driven, interdisciplinary approach to learning about important global issues. GCC courses are taught by two or more cross-disciplinary faculty who bring unique perspectives to the challenge being explored. Courses include “Science and Society: Working Together to Avoid the Antibiotic Resistance Apocalypse,” “Pathways to Renewable Energy,” and “The Achievement Gap: Who Is to Blame?”

Undergraduates value such opportunities to have an impact on the world. Data from the 2018 Student Experience in the Research University (SERU) survey indicated that 90 percent of students surveyed considered opportunities to connect their academic work with community-based experiences important. Public engagement activities support student learning and development outcomes and help recruit students to the University who are looking for these engagement opportunities.

The Community Engagement Scholars Program is one option for students to immerse themselves in a
rigorous community-based learning program. Through a cohort model, students complete eight credits of service-learning coursework, participate in structured reflection sessions, volunteer for a minimum of 400 hours with a community organization, and submit a final capstone project produced in partnership with a community organization. Upon completion of the program, students receive official recognition at graduation and on their academic transcript. The program currently enrolls 127 students.

The University has agreed upon campus-wide undergraduate student learning outcomes, which state that, at the time of receiving a bachelor’s degree, students:

- Can identify, define, and solve problems.
- Can locate and critically evaluate information.
- Have mastered a body of knowledge and a mode of inquiry.
- Understand diverse philosophies and cultures within and across societies.
- Can communicate effectively.
- Understand the role of creativity, innovation, discovery, and expression across disciplines.
- Have acquired skills for effective citizenship and lifelong learning.

Articulated learning outcomes are important as faculty develop curricula, plan courses, construct learning activities, and assess the learning that occurs in every aspect of the student experience: classes, service-learning, research opportunities, internships, and learning abroad.

Twin Cities undergraduate teaching facilities have been improved with state-of-the-art classrooms, including Bruininks Hall, which has more than a dozen high-tech, active-learning classrooms. Completed in fall 2017, the renovation of the John T. Tate science and teaching building transformed obsolete labs and antiquated classrooms into vibrant, flexible spaces that will bolster instruction, research, and support services. Residence hall facilities and programming have been recently enhanced, as well. The 17th Avenue Residence Hall increased the on-campus housing capacity by 600 beds. While Pioneer Hall is being renovated, the University is leasing residential space from private facilities near campus and has adjusted room assignment processes to ensure housing for incoming students. A new Residential Curriculum Model has been launched in all residence halls and apartment communities, based on five elements of well-being: career, social, financial, physical, and community—reflecting the University’s ongoing commitment to student engagement, retention, graduation, and success.

Preparing Twin Cities Campus Graduates for Success

The University is committed to providing students with a distinctive, world-class liberal education and rigorous coursework in a field of study. Initiatives concerned with the student experience are focused on enriching students’ knowledge, skills, and abilities and equipping them for the challenges of the future in a diverse, changing, global society. Undergraduate student retention rates, graduation rates, and the number of degrees conferred are among the measures that the University uses to assess the extent to which the University is challenging, educating, and graduating students. The University Progress Card includes the following goals for undergraduate education on the Twin Cities campus:

- 4-year graduation rate of 65% for the 2017 cohort
- 6-year graduation rate of 82% for the 2015 cohort
- Average freshman ACT score > 28
- 3-year graduation rate > 65% for transfer students

Retention and Graduation Rates

The Twin Cities campus has made significant progress over the last decade in improving undergraduate graduation rates (Progress Card Measure). Retaining students after their first year is the first step toward timely graduation. Figure 4-A and Figure 4-B show the most recent results, with rates at their highest levels ever, including four-year graduation rates now at 71.1 percent. As a result of this progress, the Twin Cities campus rates are moving ahead of comparable institutions. Table 4-3 ranks the graduation rates of the Twin Cities campus’s comparison group institutions (which include the most selective public research universities in the country), as well as the other public Big Ten Conference universities. While the table lists graduation rates for classes matriculating in 2010
Figure 4-A. Four-, five-, and six-year graduation rates of first-time, full-time undergraduate students, Twin Cities campus, classes matriculating in 2004–2014

*Rates include graduates who transferred to another University of Minnesota campus. Graduation rates displayed in Table 4-3 are those reported to the national database (IPEDS), which counts only students who matriculated at and graduated from the same campus. As a result, the rates presented in the figure above differ slightly than those displayed in Table 4-3.

Source: Office of Institutional Research, University of Minnesota

Figure 4-B. First-year retention rates of first-time, full-time undergraduate students, Twin Cities campus, classes matriculating in 2007–2017

Source: Office of Undergraduate Education, University of Minnesota

Figure 4-C. New freshman retention, students of color and all other domestic students, Twin Cities campus, classes matriculating in 2007–2017

Source: Office of Undergraduate Education, University of Minnesota

(continued)

First-year retention rates for students of color have improved significantly (Figure 4-C) over the past ten years, as have retention rates for Pell-eligible students (Figure 4-D).

Degrees Conferred

The Twin Cities campus has increased by more than 17 percent the number of undergraduate degrees awarded over the past decade, from 6,650 in 2007–08 to 7,811 in 2017–18 (Figure 4-E).

In response to changes in student interest and state and national employment needs, the Twin Cities campus is now awarding substantially more degrees in science, technology, engineering, and math (STEM) fields. From 2007–08 to 2017–18, the number of STEM degrees increased by 56 percent, from 2,284 to 3,573. STEM degrees awarded include all baccalaureate
degrees in several broad categories as defined by the Department of Education. These STEM fields include agriculture, natural resources, engineering, computer sciences, biological sciences, physical sciences, mathematics, and health professions.
DULUTH CAMPUS

Maintaining Access to the Duluth Campus

Affordable Access
With a unique combination of both land-grant and sea-grant missions, the University of Minnesota Duluth (UMD) occupies a distinctive place in the University system and is committed to being accessible to Minnesota students. UMD serves the citizens of the state; over 85 percent of UMD’s undergraduate students are from Minnesota, with about half coming from the Twin Cities metro area and half from greater Minnesota. In 2017, 33 percent of students in UMD’s entering class were first-generation college students.

UMD ensures affordable access for students of all backgrounds and has expanded both merit and need-based scholarships to attract top-level students. In 2017, 40 percent of UMD students qualified for the University of Minnesota Promise Scholarship, a multi-year scholarship for Minnesota resident undergraduates with a family income of up to $120,000. In addition, UMD offered 260 Best in Class scholarships in 2017 to students who ranked either first or second in their high school class.

UMD distributes more than $107 million in financial support to undergraduate students annually. University scholarships comprise approximately $13 million of that aid. More than half of UMD undergraduates received a University scholarship in fiscal year 2017. Ongoing initiatives such as the student debt report card, financial peer mentoring program, and prospective student and family early financial education remain key aspects of UMD’s financial support efforts (Table 4-4).

Diversity
The Duluth campus has a commitment to equity and diversity and has placed a high priority on creating an environment that is welcoming and inclusive. UMD has two full-time leadership positions dedicated to campus climate training and development for faculty, staff, administration, and students. UMD’s Campus Climate Initiative continues in its eighth year with a new web presence to facilitate transparency and information sharing. Units across campus continue to move forward in alignment with the campus’s strategic plan goal number two with efforts reported on the campus climate website under “Next Steps,” as well as a campus-wide resource guide.

The Intercultural Leadership Development (ILD) initiative is in its sixth year and 16th cohort, providing a 40-hour professional development opportunity for over 270 faculty, staff, and administrators. In addition to the ILD initiative, UMD has developed internal capacity to offer the Equity and Diversity Certificate Program, originally developed and offered systemwide by the Office of Equity and Diversity. UMD’s training team offers all ten of the certificate workshops per year with 30 to 80 staff participating in each. Training about implicit bias in the search process is offered two to three times per semester at UMD as well as workshops and a community of practice for faculty who want to integrate more inclusive content and pedagogy into their courses.

In 2016, UMD conducted a Campus Climate Survey. The results were shared with the campus community and “Ideas” sessions were held. After qualitative analysis, the Campus Climate Working Group determined three areas of focus: make UMD more diverse, make UMD more inclusive, and work on anti-bullying and civility.

The Duluth campus values diversity as a means of enriching the educational experience of all students and continues its strong commitment to building a more diverse student body. Studying and learning in a diverse environment helps prepare students to

<table>
<thead>
<tr>
<th></th>
<th>2008</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gift Aid</td>
<td>$24.2m</td>
<td>$41.5m</td>
</tr>
<tr>
<td>Employment</td>
<td>$4.1m</td>
<td>$5.0m</td>
</tr>
<tr>
<td>Loans</td>
<td>$53.7m</td>
<td>$59.0m</td>
</tr>
<tr>
<td>Waivers</td>
<td>$3.0m</td>
<td>$1.9m</td>
</tr>
<tr>
<td>Total Student Aid</td>
<td>$85.1m</td>
<td>$107.4m</td>
</tr>
</tbody>
</table>

Source: Office of Institutional Research Student Aid Profile, University of Minnesota

Table 4-4. Student aid trends, degree-seeking undergraduates, Duluth campus, 2008 and 2018
live and work in an increasingly heterogeneous and
global society. To that end, UMD utilizes a holistic
undergraduate admission review process by which
the strength of the applicant is evaluated through
multiple factors that incorporate academic measures,
relevant cocurricular and work experiences, and other
individual characteristics. Over the past decade, UMD
has experienced steady growth in the percentage of
students of color enrolled, as shown in Figure 4-F.

**Academic Writing & Learning Center**

UMD’s Academic Writing and Learning Center
(AWLC) provides academic courses and services
designed to help all members of the campus
community reach their academic and professional
goals. The AWLC encompasses the Supportive
Services Program, the Tutoring Center, and the
Writers’ Workshop.

The Supportive Services Program (SSP) offers learner-
centered courses that contribute to students’ personal,
academic, and professional success. They prepare
students for the rigors of college-level academics as
well as train undergraduate peer tutors and mentors.
For example, SSP partners with UMD’s financial
literacy educator for the highly successful Financial
Peer Mentor Program, one of the first of its kind
in the country. Starting fall 2018, innovative five-
week, one-credit courses are offered: 1) Reading to
Remember, 2) Time and Stress Management, and 3)
Studying, Note Taking and Test Taking. These courses
offer the advantage of taking an in-depth approach
to particular learning strategies with the benefit of
scheduling flexibility; students can take any number
of the courses in any sequence, beginning at five-week
intervals throughout the semester. A new three-credit
Academic Reading and Writing course responds to
faculty and student requests for more instruction
in these essential academic skills. SSP also offers
Supplemental Instruction for targeted, high-intensity
courses that provides peer-assisted study sessions led
by trained leaders.

Established in 1987, UMD’s Tutoring Center has
delivered nearly 350,000 tutorials by over 6,500
peer tutors. The program has been certified at the
highest level by the College Reading and Learning
Association, distinguishing it from many programs
not only at peer institutions but also much larger
universities. Currently, 120 to 160 undergraduate
peer tutors offer over 12,000 tutorials a year with 94
percent of survey respondents reporting improved
academic success. The tutors meet rigorous standards
set by individual academic departments and are
trained in a semester-long, two-credit course. The
Association for the Tutoring Profession recognized the
program’s excellence by naming the Tutoring Center
the 2014 Outstanding Tutoring Program in the nation.

UMD’s campus-wide writing center, the Writers’
Workshop, serves both undergraduate and graduate
students as well as faculty and staff. Since opening
in 2013, usage has grown steadily, nearly doubling
in five years. Last year 2,620 one-to-one sessions
of 30 to 60 minutes each were provided by faculty
members or graduate students. About one-third of the
appointments are with those whose first language is
not English and nearly 40 percent are with those from
underrepresented populations. Over ten percent of the
appointments are with graduate students, faculty, or
staff. Surveys show that 96 percent of users say they
had a positive experience, and 92 percent say visiting
the Writers’ Workshop improved their writing skills
and increased their confidence as writers. Beyond
receiving individual consultations, UMD students and
instructors participate in writing-related workshops
held throughout the year. A full-time ESL specialist
also conducts study groups and private work sessions
for any member of the campus community whose first
language is not English.
Attracting Outstanding Students to the Duluth Campus

The Duluth campus integrates liberal education, research, creative activity, and public engagement and prepares students to thrive as lifelong learners and globally engaged citizens. UMD’s commitment to the success of undergraduate students begins with prospective student outreach and extends through recruitment, orientation, freshman seminars, academic advising, curricular and cocurricular experiences, internships, graduation, and beyond.

During 2017–2018, UMD’s Strategic Enrollment Management (SEM) subcommittee completed a review of UMD’s enrollment management plan to assess progress since its inception in 2013 and to identify current priorities and related strategies. The subcommittee supported this work with a review of external high school population demographic data, levers related to undergraduate enrollment, and campus enrollment key performance indicators, and conducted a SWOT analysis to identify current challenges and opportunities. An updated SEM plan was endorsed by campus leadership in April 2018. Current undergraduate enrollment priorities are highlighted in the following seven overarching themes.

1. **Plan for annual incremental undergraduate growth over the next five years.** Increase the total undergraduate enrollment from 9,199 (fall 2017) to approximately 9,600 to 9,800 by 2023.

2. **Address capacity issues related to high-demand programs and on-campus housing.** Complete an undergraduate program demand/capacity analysis by November 2018. Develop a multi-phase plan to address the current residence hall bed shortage, projected growth in undergraduate enrollment, and aging existing facilities by spring 2019.

3. **Maintain commitment to transfer students.** Continue to engage collegiate units and departments in creating partnerships with community college partners, identify and address any roadblocks to timely transfer course evaluations, and assess the viability of creating a transfer center.

4. **Enhance affordability and access.** Hold tuition and fee increases for resident undergraduate students to a minimum and ensure timely awarding and distribution of scholarship funds. Pursue supplemental need-based financial awards as funding becomes available.

5. **Strengthen ethnic, social, economic, and geographic diversity.** Expand involvement of diverse alumni in recruitment events and build stronger relationships with community-based organizations. Create partnerships and affiliations to enhance dual degree and transfer opportunities for international students. Build upon the work currently taking place under UMD Strategic Plan Goal 2 and the Campus Climate Initiative to create a welcoming and inclusive environment for all students.

6. **Enhance support of students’ initial academic success.** Continue to develop unit, academic department, and course strategies to improve success rates. Develop a comprehensive strategy to support students identified as at risk for attrition. Align enrollment services and resources in order to provide a seamless transition to UMD.

7. **Support timely graduation.** Develop reports and tools to assist in identification of issues related to course sequencing and course offerings. Enhance services for students changing majors. Increase online course offerings to facilitate timely program completion.

Offering a Great Student Experience on the Duluth Campus

The Duluth campus overlooks the shores of Lake Superior in a thriving community that offers over 11,000 acres of public space, more than 160 miles of hiking trails, and a vibrant arts scene. *Outdoor Magazine’s* winner of “Best Outdoor Town in America,” Duluth is a four-season vacation destination and international shipping harbor known for its natural beauty. The Duluth campus takes pride in providing a high-quality living and learning experience, abundant opportunities for undergraduate and graduate research, over 250 student organizations, and a strong
presence in the cultural and intellectual life of the Duluth community. The campus consistently ranks among the top Midwestern regional universities in *U.S. News and World Report*’s “America’s Best Colleges.” Providing an alternative to large research universities and small liberal arts colleges, UMD attracts students looking for a personalized learning experience on a right-sized campus of a major university.

Undergraduate students can choose from 15 bachelor’s degrees in 91 degree programs across five collegiate units, including the Labovitz School of Business and Economics, the College of Education and Human Service Professions, the School of Fine Arts, the College of Liberal Arts, and the Swenson College of Science and Engineering. The Duluth campus offers graduate programs in 25 fields and three cooperative programs offered through the Twin Cities campus, in addition to a two-year program at the University’s School of Medicine Duluth and a four-year College of Pharmacy program.

**Freshwater Research**

The Duluth campus serves the state and the nation as a leader in freshwater research, supported by its position at the headwaters of one vast freshwater system, the Laurentian Great Lakes, and near the headwaters of part of another, the Mississippi River. Water directly or indirectly accounts for much of the wealth of this region. The amount and diversity of freshwater science, policy, and outreach that occurs in and around UMD is arguably unmatched by any other institution across the nation. The size and setting of the Duluth campus is ideal for close collaboration of faculty, undergraduate, and graduate students in freshwater research and provides UMD students with exceptionally strong preparation for postgraduate options in the job market.

UMD is actively addressing the “grand challenge” of water quality, water supply, and how to continue to provide clean freshwater to the region’s communities, industries, and ecosystems. Freshwater research education and outcomes are integrated campus-wide through the work of faculty and staff associated with the Swenson College of Science and Engineering, Natural Resources Research Institute, Large Lakes Observatory, and Minnesota Sea Grant.

**Undergraduate Research**

UMD continues to be a leader in undergraduate research, providing opportunities in research, scholarship, and creative activity. The Undergraduate Research Opportunity Program has a very high participation rate of 150 to 200 students annually. Faculty grants and donor gifts add to the funding of undergraduate research, scholarship, and creative activity. Several departments have nationally recognized summer undergraduate research programs, the newest being the BURST program (Biological Undergraduate Research in Science and Technology).

All stakeholders on campus recognize the impact that undergraduate research, scholarship, and creative activity have in the academic life and future career engagement of students. For example, donor and UMD friend Jim Swenson valued his undergraduate research so much that the Swenson Family Foundation has funded summer research in chemistry and biochemistry every year for more than two decades. Brian Kobilka, the 2012 Nobel Prize winner in chemistry, credits his involvement in undergraduate research at UMD for the start of his successful career as a scientist.

UMD celebrates undergraduate research and artistic activities with two Undergraduate Research/Artistic Showcases each year. These half-day campus events feature student posters, computer demonstrations, art exhibits, and theater productions, all providing information about projects completed by undergraduate students working with faculty mentors.

UMD is a strong contributor to the research mission of the University system. With a research footprint that is proportionally larger than its size, the Duluth campus complements the Twin Cities campus in serving the needs of Minnesota.

**Athletics and Recreation**

UMD student-athletes focus on three key areas: classroom, community, and competition. The 2017–2018 year brought great competitive success for Bulldog programs, while concurrently setting new records in academics and volunteerism. UMD student-athlete highlights from the past year include:

- a record-setting grade point average of 3.25
• 94 percent graduation rate
• 132 student-athletes achieved GPAs of 3.50 or above and 15 turned in perfect 4.00 marks
• a program-best eight Academic All-Americans for the 2017–2018 season
• UMD student-athletes, coaches, and staff logged over 3,600 hours of community service during the 2017–2018 athletic season
• UMD softball recorded its best season in Bulldog history (Regional Champions)
• Two Bulldogs played on the gold-medal-winning USA women’s hockey team in the 2018 Olympics
• UMD men’s hockey won the 2018 Division 1 National Championship

UMD’s Recreational Sports Outdoor Program (RSOP) has been a national leader in engaging students in healthy, active lifestyles and connections to the natural world through personal and professional experiences. RSOP programming areas include intramural sports, informal sports, fitness and wellness, sport and outdoor clubs, aquatics, kayaking and canoeing, climbing, environmental education, and outdoor trips. Over 90 percent of UMD students take advantage of RSOP facilities and services. The overall RSOP and intramural participation rates are 20 percentage points above national benchmarks, placing UMD among the top schools in the nation. The latest major benchmarking occurred in spring 2017. Results include that:

• 91 percent participate in RSOP programs and services;
• 75 percent indicated that RSOP was important in their decision to attend UMD;
• 77 percent indicated that RSOP was important in persisting; and
• 73 percent indicated that their academic performance improved due to participation.

Preparing Duluth Campus Graduates for Success

As Figure 4-G shows, the Duluth campus awarded 18 percent more degrees in 2017–18 than in 2007–2008. UMD conducts an annual survey of graduates, with the most recent report showing that 96 percent of UMD grads are successful in employment or in continuing their education in their first year after graduation. Other findings include:

• 90 percent indicated their employment is related or somewhat related to their major
• 48 percent said they had completed an internship
• 84 percent reported accepting employment in Minnesota

As evidenced in the Strategic Enrollment Management Plan, UMD continues its commitment to improve student retention and graduation rates (see Figure 4-H and Figure 4-I) (Progress Card measure). The UMD Action Plan for Student Retention lists more than sixty course, department, and unit initiatives supporting improved first- and second-year persistence. Work is underway to expand initiatives that demonstrate improved student outcomes. As one example, the College of Education and Human Service Professions (CEHSP) implemented a strengths-based initiative in 2016. This initiative, which focused on first-year undeclared students, tracked the retention rates of the CEHSP participants and found that participants had nearly a seven percent higher retention rate than the general CEHSP cohort. Based on this success, UMD is launching an expanded strengths-based initiative in fall 2018 serving more new high school students.

Table 4-5 shows how the Duluth campus compares with its peer group institutions, using rates for the class matriculating in 2010, the most current data available.

Figure 4-G. Undergraduate degrees awarded, Duluth campus, 2008–2018

Source: Office of Institutional Research, University of Minnesota
Figure 4-H. Four-, five-, and six-year graduation rates of first-time, full-time undergraduate students, Duluth campus, classes matriculating in 2004–2014

![Graph of graduation rates]

*Rates include graduates who transferred to another University of Minnesota campus. Graduation rates displayed in Table 4-5 are those reported to the national database (IPEDS), which counts only students who matriculated at and graduated from the same campus. As a result, the rates presented in the figure above differ slightly than those displayed in Table 4-5.

Source: Office of Institutional Research, University of Minnesota

Table 4-5. Six-year graduation rates (class matriculating in 2010), Duluth campus and comparison group institutions

<table>
<thead>
<tr>
<th>Institution</th>
<th>6-year Graduation Rate</th>
<th>Institutional Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA Poly. State U.–San Luis Obispo</td>
<td>80%</td>
<td>1</td>
</tr>
<tr>
<td>Col. of Charleston</td>
<td>69%</td>
<td>2</td>
</tr>
<tr>
<td>Western Washington U.</td>
<td>69%</td>
<td>2</td>
</tr>
<tr>
<td>U. of Northern Iowa</td>
<td>65%</td>
<td>4</td>
</tr>
<tr>
<td><strong>U. of Minnesota–Duluth</strong></td>
<td><strong>59%</strong></td>
<td><strong>5</strong></td>
</tr>
<tr>
<td>U. of N.C.–Charlotte</td>
<td>57%</td>
<td>6</td>
</tr>
<tr>
<td>South Dakota State U.</td>
<td>54%</td>
<td>7</td>
</tr>
<tr>
<td>U. of Michigan–Dearborn</td>
<td>54%</td>
<td>7</td>
</tr>
<tr>
<td>Western Michigan U.</td>
<td>53%</td>
<td>9</td>
</tr>
<tr>
<td>Minnesota State U.–Mankato</td>
<td>50%</td>
<td>10</td>
</tr>
<tr>
<td>U. of Mass.–Dartmouth</td>
<td>48%</td>
<td>11</td>
</tr>
<tr>
<td>Southern Illinois U.–Edwardsville</td>
<td>47%</td>
<td>12</td>
</tr>
<tr>
<td><strong>Comparison Group Average</strong></td>
<td><strong>59%</strong></td>
<td><strong>-</strong></td>
</tr>
</tbody>
</table>

Source: Integrated Postsecondary Education Data System (IPEDS)

Figure 4-I. First-year retention rates of first-time, full-time undergraduate students, Duluth campus, classes matriculating in 2007–2017

![Graph of retention rates]

Source: Office of Institutional Research, University of Minnesota

See footnote on Figure 4-H.
MORRIS CAMPUS

As a public liberal arts college, the University of Minnesota Morris occupies a distinctive place in the landscape of higher education and within the University system. Morris is the only public liberal arts college so designated in the state of Minnesota by the Council of Public Liberal Arts Colleges. With selective admissions and its focus on undergraduates in a residential, highly engaged learning community, Morris resembles the top private liberal arts colleges that populate the Upper Midwest while serving a more diverse student population.

Morris is still young as an institution of higher education—the first college class entered in 1960. The college was founded by the University of Minnesota with strong support and advocacy from regional community leaders who envisioned a public liberal arts college on the Minnesota prairie. The historic campus was first home to an American Indian boarding school (1887–1910), then an agricultural boarding high school (1910–1963). This history informs the campus today and forms the foundation for the Morris campus’s unique opportunity, obligation, and dedication to serving rural students, American Indian students, and others from traditionally underserved backgrounds.

The campus mission unfolds within the context of the land-grant charge of the University system. The Morris campus provides a rigorous undergraduate liberal arts education, preparing its students to be global citizens who value and pursue intellectual growth, civic engagement, intercultural competence, and environmental stewardship. The Morris campus is a center for education, culture, and research for the region, and is committed to outstanding teaching, a dynamic learning environment, innovative faculty and student scholarship and creative activity, and public outreach. The residential academic setting fosters collaboration, diversity, and a deep sense of community.

Morris classes are taught by a dedicated and talented faculty, 99 percent of whom have earned terminal degrees in their fields. They are committed to teaching and mentoring undergraduates, and are recognized with the highest per capita membership in the University’s Academy of Distinguished Teachers of any University campus or college. They value and embrace the University’s commitment to research, scholarship, and the production of artistic work. In 2017, the 130 Morris campus faculty members achieved over 120 research and creative activity accomplishments, including 84 refereed journal articles—many with students as coauthors—and four academic books.

Maintaining Access to the Morris Campus

Enrollment Strategy

The Morris campus’s enrollment goals and strategies are being revisited as part of the strategic planning process that began fall 2017. The campus is also actively participating in the Systemwide Enrollment Management Taskforce. Morris’s current enrollment plan calls on the campus to maintain selective admissions; to reflect the state and region’s growing racial and ethnic diversity within the student body; and to increase the number of international students to add global perspectives to student life. It also affirms the continuing Morris commitment to serve west central Minnesota and the state well.

Today, Morris is one of the state’s most diverse universities and the only four-year Native American Serving Non-Tribal Institution in the Upper Midwest (U.S. Department of Education). American Indian students comprise under two percent of undergraduate students in Minnesota and the United States. In comparison, American Indian students comprise 21 percent of the Morris campus degree-seeking student population. Overall, American Indian students, students of color, and international students comprise over 40 percent of the Morris student body.

The campus enrollment strategy of recruiting and retaining a talented group of undergraduates has been consistent for decades, with the average ACT score for entering students remaining stable at 25 for over ten years. The combined focus on selectivity and diversity in an undergraduate-focused residential setting makes Morris a unique campus within the University system and in the state.
Accessible to Minnesotans

The Morris campus is accessible to Minnesota students, many from traditionally underserved backgrounds. In fall 2018, nearly 75 percent of Morris students are from Minnesota; about a third are from the Twin Cities metropolitan area. The campus continues to serve students from Stevens County and the immediate region at approximately the same percentage as it typically has—however there are fewer rural high schools and regional graduates than there were when the Morris campus opened in 1960.

Accessibility and Underserved Student Populations

In fall 2018, 30 percent of degree-seeking students on the Morris campus are students of color and American Indian students, the highest percentage in the University system (Figure 4-J). Twenty-one percent are American Indian students, and the Morris campus has the highest percentage of Native students at a four-year, non-tribal institution in the Upper Midwest. When considering only the first-year class, students of color and American Indian students comprise 41 percent of new students in fall 2018. Morris’s record of success serving these students positions the campus well to respond to the changing demographic trends in the region, the state, and the nation.

Thirty-four percent of the Morris campus’s 2018 new first-year students will be the first generation of their family to graduate with a four-year baccalaureate degree. Overall, first-generation college students comprise approximately one-third of the Morris student body.

The campus has sought external funding and directed internal University resources to support the success of its diverse and talented student body. In July 2015, the campus received a five-year grant from the U.S. Department of Education to establish a TRiO Student Support Services project at Morris. With total funding of over $1 million, the project is dedicated to supporting the college success of first-generation students from low-income households and students with disabilities. In August 2015, Morris received a second federal grant from the U.S. Department of Education under the Native American Serving Non-Tribal Institutions (NASNTI) program of Title III to establish the Native American Student Success program at Morris. In fall 2016, academic coaching and support services were expanded to include all first-year students.

In fall 2017, the campus received a five-year, $1.2 million TRiO Ronald E. McNair Post-Baccalaureate Achievement (McNair) Program grant from the U.S. Department of Education, dedicated to preparing cohorts of low-income, first-generation students and students from groups underrepresented in graduate education for doctoral study. The campus expects that, once fully implemented, these efforts will contribute to student success, persistence, and retention.

Access and Affordability

Morris serves an increasing number of students with financial need. In fall 2018, over 30 percent of Morris students received Pell Grants, compared to about a quarter of students in fall 2008. In fall 2018, 88 percent of Morris students received financial aid. The campus offers three merit-based scholarships. An achievement scholarship is awarded to students who exhibit exceptional academic promise. In addition, two scholarships are awarded based on previous academic achievement and performance; students who receive these scholarships enroll and persist at rates well above the Morris campus’s average for admitted students.

In addition to these grants and scholarships, the Morris campus offers a federally mandated and state-statute-supported American Indian tuition waiver unique to the Morris campus and tied to its history as an American Indian boarding school. While the unrealized tuition dollars associated with the waiver poses a growing and significant financial challenge for the campus, Morris remains fully committed to
the tuition waiver. It provides an attractive incentive to qualified Native students (admitted with the same requirements as all students) to enroll and persist, with educational benefit for these students and for the campus as a whole.

**Attracting Outstanding Students to the Morris Campus**

The Morris campus is selective, with an average ACT score of 25 for entering students—an unusually high level of academic success for a campus enrolling such a high number of students from populations historically underrepresented in higher education.

Morris students have earned a reputation as smart and action-oriented, excelling within the classroom while also taking their learning out into the world. Morris students are responsible for a number of successful initiatives on campus, including the student-run recycling program; the composting initiative; the green revolving fund; the organic garden and the Native American garden; and the weekend bus that transports students to and from the Twin Cities.

Morris students win national awards—including the American Indian Science and Engineering Society “best chapter” award and the Association for the Advancement of Sustainability in Higher Education student leadership award. In 2017, one Morris student was awarded a Udall Scholarship, and four Morris students were awarded Fulbright scholarships. In 2018, an additional three Morris students were awarded Fulbright scholarships and one student was awarded a Boren scholarship for Urdu language acquisition and Indian cultural study.

The Morris campus is highly ranked by many national publications—including by *U.S. News and World Report* as a top-ten public liberal arts college for 20 consecutive years; by the Sierra Club’s *Sierra* magazine as a top-40 “Cool School” for six consecutive years (2018); in the *Forbes* annual ranking for best colleges and universities in the nation (2018); and by Fiske in its annual guide to “the best and most interesting” schools in the United States, Canada, and the United Kingdom (2019).

**Offering a Great Student Experience on the Morris Campus**

The Morris campus offers a distinctive student experience, preparing students for success and producing outcomes that matter. With its undergraduate, residential focus, the campus offers a distinctive value proposition as a public “private,” providing the same focused experience as the Upper Midwest’s many excellent private liberal arts colleges, but at half or a third the price, even factoring in typical financial aid packaging at the privates. The Morris campus’s ongoing efforts to create a model sustainable community make it an exciting destination for young people poised to invent a new future.

With an average class size of 16 and a student/faculty ratio of 13:1, Morris students are taught by a faculty with the University’s highest percentage of Horace T. Morse award winners for excellence in undergraduate education. Morris also supports a rich environment for student engagement. National Survey of Student Engagement data (2017) show that 95 percent of Morris seniors participated in at least one (and 79 percent participated in two or more) high-impact practices recognized for transformational effects on student learning and success (e.g., service-learning, research with faculty, internship/field experience, study abroad, a culminating senior experience), well above students at other public liberal arts colleges (see Table 4-7).

Morris students serve as teaching assistants, peer mentors, and tutors, and present at professional conferences alongside their faculty mentors. These experiences, of the type and quality often reserved for graduate students, are a springboard for meaningful employment and post-baccalaureate education.

Students are advised and mentored by their faculty, with professional success coaches added in the last three years to augment Morris’s long-standing faculty advising model. Coaches interact with students and connect them to the many support resources available, including the Office of Academic Success, counseling resources, and One Stop student services. The ultimate goal is to promote student success and improve retention.
Table 4-6. Student engagement rates, Morris campus and comparison group institutions, spring 2017

<table>
<thead>
<tr>
<th>Activity</th>
<th>Morris Seniors</th>
<th>COPLAC</th>
<th>NSSE All</th>
<th>Bac LA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completed a culminating senior experience (capstone, project, thesis)</td>
<td>94%</td>
<td>77%</td>
<td>69%</td>
<td>85%</td>
</tr>
<tr>
<td>Attended art exhibits, dance, music, theater, or other performances</td>
<td>81%</td>
<td>63%</td>
<td>55%</td>
<td>78%</td>
</tr>
<tr>
<td>Participated in cocurricular activities during senior year</td>
<td>83%</td>
<td>61%</td>
<td>57%</td>
<td>85%</td>
</tr>
<tr>
<td>Held a formal leadership position in a student group</td>
<td>63%</td>
<td>46%</td>
<td>43%</td>
<td>69%</td>
</tr>
<tr>
<td>Worked on campus in a paid position during senior year</td>
<td>63%</td>
<td>46%</td>
<td>43%</td>
<td>69%</td>
</tr>
<tr>
<td>Worked on a research project with a faculty member</td>
<td>52%</td>
<td>41%</td>
<td>35%</td>
<td>53%</td>
</tr>
<tr>
<td>Studied abroad</td>
<td>42%</td>
<td>20%</td>
<td>21%</td>
<td>43%</td>
</tr>
</tbody>
</table>

Source: National Survey of Student Engagement

This table presents the percentage of seniors engaging in an activity prior to graduation at Morris compared with Council of Public Liberal Arts Colleges (COPLAC) peers as well as all four-year universities participating in the National Survey of Student Engagement (NSSE All). The Carnegie national Baccalaureate Liberal Arts colleges (Bac LA) group, of which Morris is a part, provides an aspirational comparison. This group of largely private colleges (nearly 90% are private), led by Williams College, Amherst College, and Bowdoin College, tend to be more well-resourced and serve more traditionally college-bound student populations with higher expectations for student engagement.

The Morris campus has a robust community-engaged learning and engagement program, partnering with 80 area agencies, businesses, and organizations to enrich student learning and serve community needs. One example is Tutoring, Reading, and Empowering Children (TREC), a long-standing partnership that provides Morris students with opportunities to tutor and mentor children. TREC tutors are work-study, volunteer, and community-engaged learning students serving at a variety of sites, including the Morris Public Library, the Morris Area School District, and bilingual programs on campus. More than 100 children participate in TREC annually, and assessments indicate that TREC participants make progress in school readiness, academic skills, and social skills as a result of their work with TREC tutors.

In 2015, the Morris campus was awarded the Carnegie Classification for Community Engagement, a prestigious designation the campus holds until 2025. Morris has been included in the federal President’s Honor Roll of campuses recognizing the institution’s outstanding commitment to community service.

A variety of student opportunities add value to the undergraduate experience and reflect the Morris campus mission. For example, 42 percent of Morris students have studied abroad by the time they graduate, which promotes the development of global citizenship and gives students experience and maturity that serve them well when they leave the institution.

More than half of Morris graduates have deepened their learning through mentored work with a faculty member on a research project. Many of these projects provide student stipends and research support through a variety of funding mechanisms.

In the most recent National Survey of Student Engagement, nearly 90 percent of Morris seniors reported that, if they could start college all over again, they would go to Morris (5 percentage points above seniors at other public liberal arts colleges) and 93 percent rate their overall educational experience at Morris as good or excellent, with the majority choosing excellent.

Preparing Morris Campus Graduates for Success

Ninety-five percent of Morris students who graduated in 2017 indicated that they were employed and/or in graduate or professional school one year after graduation; nearly one-fourth of Morris students proceed directly to graduate and professional school following graduation. Figure 4-K shows the total number of undergraduate degrees awarded.

Retention continues to be a challenge for all higher education institutions, and Morris is no exception.
In the past several years the first-year retention rate has hovered around 80 percent (Figure 4-L). This is accounted for in part by the challenges found in enrolling a talented but under-resourced undergraduate population. As described above, the campus has implemented a new model of advising and coaching intended to boost retention. In addition, the campus has expanded its peer mentoring program and academic alert initiatives, expanded its grant-funded individualized academic success plans to include all students, and is evaluating a plan for parallel major program pathways. In fall 2017, Morris began a multi-year, campus-wide project focused on increasing first-year student retention. The three components of the work are: conducting a systematic, integrated assessment of the campus’s large suite of first-year retention efforts; utilizing system resources to provide additional mental health and well-being programming; and making participation in high-impact practices—a hallmark of the Morris experience—more explicit, available, and accessible to first-year students.

Graduation rates continue to be high when compared to many other public, four-year baccalaureate institutions, especially when characteristics of the student population are taken into account (Progress Card Measure). A Midwestern Higher
Education Compact 2015 report ranks Morris as the most effective and efficient four-year university in Minnesota. The study’s two metrics allow a more meaningful comparison of graduation rates and cost-per-graduate among disparate institutions, taking into account differences in demographics and environments. Morris produces more graduates than expected (a high Effectiveness Score) while spending less than expected per graduate (a low Expenditures Score). Of the 634 high-performing, four-year institutions included in the national report, Morris ranks in the top five percent. There are only 27 four-year universities in the nation that outperform Morris on both metrics simultaneously.

About 50 percent of Morris students graduate in four years. The 2014 four-year graduation rate of 49 percent and six-year rate of 70 percent are lower than campus goals, although comparable to peer institutions (Figure 4-M). Table 4-7 shows how the Morris campus compares to each of its comparable peer institutions and to the average of its aspirational peers. Rates are for the class matriculating in 2010, the most current data available.

### Table 4-7. Six-year graduation rates (class matriculating in 2010), Morris campus and comparison group institutions

<table>
<thead>
<tr>
<th>Institution</th>
<th>6-year Graduation Rate</th>
<th>Institutional Control</th>
<th>Institutional Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concordia Col.–Moorhead</td>
<td>73%</td>
<td>Private</td>
<td>1</td>
</tr>
<tr>
<td>St. Mary’s Col. of Maryland</td>
<td>73%</td>
<td>Public</td>
<td>1</td>
</tr>
<tr>
<td>Lycoming Col.</td>
<td>72%</td>
<td>Private</td>
<td>3</td>
</tr>
<tr>
<td>Albion Col.</td>
<td>71%</td>
<td>Private</td>
<td>4</td>
</tr>
<tr>
<td>Coe Col.</td>
<td>67%</td>
<td>Private</td>
<td>5</td>
</tr>
<tr>
<td>U. of Minnesota–Morris</td>
<td>64%</td>
<td>Public</td>
<td>6</td>
</tr>
<tr>
<td>SUNY at Purchase Col.</td>
<td>62%</td>
<td>Public</td>
<td>7</td>
</tr>
<tr>
<td>U. of N.C.–Asheville</td>
<td>62%</td>
<td>Public</td>
<td>7</td>
</tr>
<tr>
<td>U. of Maine–Farmington</td>
<td>56%</td>
<td>Public</td>
<td>9</td>
</tr>
<tr>
<td>Mass. Col. of Liberal Arts</td>
<td>53%</td>
<td>Public</td>
<td>10</td>
</tr>
<tr>
<td>U. of Virginia’s Col. at Wise</td>
<td>41%</td>
<td>Public</td>
<td>11</td>
</tr>
<tr>
<td>Comparable Group Average</td>
<td>63%</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Aspirational Peer Average*</td>
<td>85%</td>
<td>Private</td>
<td>-</td>
</tr>
</tbody>
</table>

See footnote on Figure 4-M

Source: Integrated Postsecondary Education Data System (IPEDS)

*Aspirational peer institutions: Macalester College (88%), St. Olaf College (88%), DePauw University (85%), Gustavus Adolphus College (81%), Kalamazoo College (81%)
CROOKSTON CAMPUS

The Crookston campus has a history of serving the needs of rural Minnesota. First as a residential agricultural high school (1906–1968), and later as a two-year technical college (1966–1993) before transitioning to a baccalaureate degree-granting institution in fall 1993. Crookston offers educational opportunities within the context of the University’s land-grant mission.

The Crookston campus was ranked among the top 100 Baccalaureate Colleges in the U.S. by Washington Monthly in its 2018 College Guide. The campus’s rank of 85 was its highest ranking to date and Crookston is the only Minnesota college in the top 100 on that list. Money magazine named the campus to its Best Colleges list for 2018–2019, ranking it number 190 on the list of the 727 best colleges in America. In the 2019 U.S. News and World Report “Midwest Top Public Regional Colleges” category, Crookston garnered the number two spot; the campus has ranked in the top four for 22 consecutive years.

Maintaining Access to the Crookston Campus

The Crookston campus serves as an access point to the University in the northwest corner of the state. The campus offers programs known for experiential learning and a focus on career preparedness. Students who choose Crookston seek a supportive, small-campus experience, a distinctive academic program, and/or the opportunity to learn online—all while earning a degree with the prestige of the University of Minnesota.

Serving Minnesota

In fall 2018, Minnesota residents comprised 69 percent of on-campus, degree-seeking students; 48 percent of on-campus students come from greater Minnesota and 16 percent from the seven-county Twin Cities metro area. Seventy-two percent of online students are Minnesota residents.

Recruiting from the pool of those students declined admission to the Twin Cities and Duluth campuses, the Crookston campus enrolled ten additional students in fall 2018. Those students, interested in earning a degree from the University of Minnesota, were willing to seek education on another campus in the system. Offering admission to the Crookston campus kept these students in the state of Minnesota and in the University system.

Dual enrollment agreements at Crookston enhance opportunities for regional students to earn a four-year degree. An August 2018 agreement with Red Lake Nation College (RLNC) offers academically qualified RLNC students dual admission to the Crookston campus with the goal of working toward a bachelor’s degree. The agreement established the “Azhoogan Program,” incorporating the Ojibwe word for “bridge.” Among the bachelor’s degree programs that best match the priorities and coursework at RLNC are horticulture, natural resources, business, and agricultural business, but RLNC students may choose to pursue their academic interests in any program. Faculty from both RLNC and the Crookston campus will have opportunities for sharing and jointly developing and aligning curriculum to advance quality and efficiency.

Another dual enrollment program, established in 2018 with Northland Community and Technical College (NCTC), allows NCTC students to be admitted at Crookston through identified dual admission programs. Select programs in agriculture at NCTC and Crookston, specifically involving agricultural education and animal science, are the first to utilize the NorthernConnect Dual Admission Program.

Crookston faculty research involving the study of freshwater sponges as an indicator of water quality has potential impact across the state. There has been significant interest among citizen-scientists in identifying locations of these freshwater sponges, and their efforts provide valuable information on the rivers, streams, and lakes where the sponges exist. The work also involves a number of undergraduate students in the search for these non-moving invertebrates living at the bottom of bodies of water; students are also engaged in the laboratory, examining both the sponge and the water it lives in.

Students in landscape design were responsible for the planning of pollinator gardens in Hallock, Minnesota, working cooperatively with the Northwest Minnesota Sustainable Development Partnership, the Northwest
Minnesota Foundation, and the city of Hallock. The first of the gardens was completed in summer 2018.

A longstanding tradition on campus includes natural resources students who have planted trees in the Chippewa National Forest and marked the 36th anniversary in spring 2018. Natural resources students are also involved in duck banding efforts as well as bud capping pines at Itasca State Park and the Chippewa National Forest. These experiences benefit the state and allow students significant hands-on experience within a major.

Affordability

Of 2016–2017 Crookston graduates, 31 percent completed with no debt, and those with debt averaged $24,432, which is one of the lowest average student debt figures in Minnesota, as well as one of the lowest average student debt figures for all public institutions in the United States. Specifically, the Crookston campus ranked fifth among public and private institutions of higher education in Minnesota in terms of having the lowest average student debt figures and 184th among the “Public Top 200 Lowest Debt” public colleges and universities in the nation.

In fall 2018, students enrolled at Crookston come from families with an average annual household income of $68,000. Additionally, 35 percent receive the need-based federal Pell Grant and 45 percent are first-generation college students.

Diversity

Creating pathways for students from diverse backgrounds and locations is and has been a tenet of the work at Crookston. Offering both on-campus and online options for students as well as a lower tuition rate provide greater access to distinctive programs, talented faculty, and hands-on learning opportunities through internships and classroom experiences, all of which leads to a University of Minnesota degree.

As shown in Figure 4-N, 17 percent of Crookston’s degree-seeking students identify as students of color, and Crookston’s student body includes representation from 40 countries.

In addition, the campus has a long history of serving a significant number of first-generation students and students from low socio-economic backgrounds. With its core values of diversity and student success, the Crookston campus recruits these students with intentionality and prioritizes integrating diversity, equity, and inclusion into the campus environment and programming. The goal is to close the graduation gap seen between students of color and white students while increasing graduation rates for all students.

While the campus brings greater diversity to the region overall, it underserves the populations in the region’s public schools. The local high school has a population that is 23 percent Latinx. In an effort to create pathways for this growing community, and to build and sustain outreach efforts with communities of color, a task force was established to study the investments necessary to serve the region’s Latinx high school graduates. An investigation into establishing possible partnerships with local K–12 education providers in support of these students is ongoing.

Online programming

In keeping with a modern-day vision of a land-grant institution, the Crookston campus offers a personalized online experience to more than 50 percent of the students it serves. The same dedicated and talented on-campus faculty teach online, allowing content and rigor to remain consistent across programs. The 16 online degree programs allow greater access to a population that is, typically, older than average, limited by location, and living around the state. While the average age of an on-campus student is 20.6, the average age of an online student is...
is 31.8. These online degree programs allow working professionals the opportunity to complete their bachelor’s degree and advance within their career path when traditional programs don’t meet their needs.

In fall 2018, 72 percent of the campus’s online students reside in Minnesota, with 39 percent located in the Twin Cities metro area. Seventy-seven percent are over age 25; these students are enrolled in an average of nine credits and they are typically employed. Most have already completed a significant number of college credits, transferring in an average of 67. There is rich diversity among Crookston’s online students, with 18 percent identifying as students of color and 29 countries represented.

**Attracting Outstanding Students to the Crookston Campus**

The successful student at Crookston is not necessarily defined by the highest ACT score but rather by a higher grade point average and greater involvement in high school. These students engage in campus life, maintain their achievement academically, and are looking for and finding leadership opportunities.

Of those freshmen responding to Crookston’s new student survey in fall 2018, 84 percent indicated the size of the campus was a reason for selecting the Crookston campus, 72 percent indicated that Crookston was their first-choice college, and 76 percent indicated the type of academic programs available was a reason.

Unique academic programs offered at Crookston attract students choosing these fields. Crookston offers opportunities to study equine science, horticulture, and agronomy. Crookston has one of the only four-year degree programs focused in agricultural aviation in the country, and the only baccalaureate criminal justice degree leading to Minnesota police officer certification. The health management program recently received accreditation from the National Association of Long Term Care Administration Boards and provides a nationally recognized program in nursing home administration.

Expanded offerings for students in agriculture, a core component of the Crookston portfolio, include a new major in agricultural communication blending agriculture, communication, and liberal education courses that prepare graduates for a wide variety of careers. Online students have a new option to pursue a major in agricultural business, the first online degree available in agriculture.

The Crookston campus is using its hands-on approach to learning to attract students. High school students interested in equine science or animal science participated in successful “Exploration Days” during a weekend filled with experiences similar to those of a full-time student. Other activities such as hosting high school students for Agriculture and Natural Resources Activities Day have been taking place for more than 30 years. The inaugural Northern Great Plains Youth Institute brought high school students to campus to present research and recommendations on ways to solve key global challenges. The Western Regional Science Fair, hosted at the Crookston campus, serves northwest Minnesota students in grades 6–12, and more than 50 students in grades 3–12 participated in a summer robotics camp.

Since 1999, the Crookston campus has been a member of the Northern Sun Intercollegiate Conference for Division II athletics. The eleven athletic teams make up 33 percent of the student body and had a significant impact on campus diversity. Of the 276 student-athletes, 24 percent identify as students of color. Student-athletes also maintain a higher grade point average than non-athletes (2.93 versus 2.85).

The Crookston volleyball program earned the American Volleyball Coaches Association Team Academic Award, maintaining a 3.86 grade point average during the 2017–2018 academic year. The National Association of Basketball Coaches (NABC) named the sixth annual Team Academic Excellence Awards recognizing outstanding academic achievement by a team with a cumulative grade point average of 3.0 or better for the 2017–2018 season. Crookston was one of eight Northern Sun Intercollegiate Conference institutions to earn the NABC Team Academic Excellence Award. Men’s basketball also had five players named to the NABC Honors Court.
Offering a Great Student Experience on the Crookston Campus

Small class sizes support students, enrich their academic lives, and give them greater access to faculty members for personalized advising and mentorship. Opportunities in athletics, undergraduate research, and study abroad allow students to deepen their learning and develop skills for their future. These efforts are designed to promote student success and improve retention.

Presently, 90 percent of on-campus classes have 25 or fewer students. The largest class is 59 students, and the average class size is 14. Online classes, which average 21 students per class, also offer a quality educational experience and tutoring is available for both on-campus and online students through the Academic Success Center.

A student-to-faculty ratio of 16:1 allows students greater access and opportunity to be involved in faculty-student research and creative works projects. Students attend and present at professional conferences along with their faculty mentor, leading to greater learning, wider networking, and a catalyst for meaningful internships, potential employment, and increased access to graduate or professional school.

Technology continues to be integrated into all aspects of learning at Crookston. During the 2017–2018 academic year, Crookston reviewed the student laptop program, instituted in 1993, and affirmed its success. Overall, the laptops remain highly beneficial to students, faculty, and employers. The program offers consistent and equal access to technology to all students. Following the review, work has begun on a fee-based solution for making the program more financially stable.

A specialized informatics laboratory offers students the opportunity to work with emerging technologies. This lab is used by students from many different majors, but it is especially important to software engineering students for software development and research. Crookston has prioritized strengthening its software engineering degree program through faculty hires and student recruitment, as it has significant potential to draw talented students.

Cocurricular opportunities enhance the student experience by connecting students to one another as well as to the campus and local communities and by fostering leadership development. Approximately 40 student clubs and organizations, along with student government, athletics, and residential life peer leadership and programming, offer options for personal and leadership growth. Most academic majors have a corresponding student club or organization, and all officially recognized student clubs are required to participate in two service projects per semester.

Crookston is the first system campus to participate in the Esusu financial literacy project. The program offered its inaugural sessions in fall 2018 as part of a chancellor’s initiative to reach all students; it covers topics like personal finance, taxes, and student loans.

Five business students participated for the second time in the 2018 Harvard Global Case Competition, culminating in a trip to Harvard University and extensive networking opportunities. Business students are encouraged to participate in the Business Crew (B-Crew), an initiative focused on providing extracurricular and cocurricular experiences outside the classroom, enriching the student experience.

Niche ranked Crookston fourth on its “Best College Dorms in Minnesota” list. The campus earned a grade of “A” for its residence halls and was also recognized as number seven on the “Best College Dorms in America” list. Niche also named Crookston as one of the 2019 Safest College Campuses in America, based on key statistics and student reviews using data from the U.S. Department of Education.

The Center for Collaborative Research, opened in fall 2018, is the first self-contained facility on the Crookston campus allowing work in analytical chemistry, microbiology, and molecular/cellular biology to be carried out from start to finish and support much-needed laboratory space vital to faculty research. This applied research, which is often based in the faculty member’s discipline, contributes directly to Crookston students’ learning experience while
also disseminating pedagogical insights through publications and presentations.

Support for creative works projects spurred student and faculty research in the liberal arts, including the topic of social media and its influence on grade point average. The research resulted in a poster included in the University’s Undergraduate Research Symposium, while another project examining social media influence on relationships was one of the presentations at the National Conference on Undergraduate Research held in spring 2018.

Preparing Crookston Campus Graduates for Success

Crookston continues work to improve retention (Figure 4-O) and graduation rates (Progress Card measure). Over the 2017–2018 academic year, 405 bachelor’s degrees and 20 certificates were awarded (Figure 4-P). Crookston’s four-year and six-year graduation rates continue to outpace those recorded ten years ago (Figure 4-Q) and put the campus at the top of its peer institution group (Table 4-8).

While experiencing positive graduation trends, Crookston strives to further improve retention and graduation rates. For example, the campus has just begun year three of the Higher Learning Commission’s Persistence and Completion Academy. Participation has led Crookston to identify high school grade point average as a better predictor of graduation success over ACT score. As a result, admissions criteria were modified. Additionally, a first-year-experience course is being developed that will focus on academic success strategies and career planning. The intent is to require this course be taken by all new freshmen beginning in fall 2019.

The Crookston campus emphasizes career readiness. An internship requirement for all undergraduates gives students real-world, professional experience beyond the classroom. Many programs integrate real-world examples of learning into their curriculum. Feedback to improve programs and to learn what employers need from graduates is provided through the Program Improvement Audit Committees in each program. Input from individuals working in the field provides faculty information pertinent to developing curriculum that is both relevant and substantive.

The Campus Advisory and Advancement Board, made up of professionals including several alumni from across the region and state, seeks ways to improve student and alumni success, identify high-priority programs and initiatives, support advancement, and enhance campus partnerships and service to the community, region, and beyond.

While the Crookston campus emphasizes workplace preparedness and focuses on graduating students who are career ready, a growing number of incoming Crookston students intend to further their education upon graduation. Thirty-four percent of freshmen entering in fall 2018 indicate their intent to continue in graduate study following completion of their baccalaureate degree; ten years ago, just one in five indicated such intentions.
Figure 4-Q. Four-, five-, and six-year graduation rates of first-time, full-time undergraduate students, Crookston campus, classes matriculating in 2004–2014

*Rates include graduates who transferred to another University of Minnesota campus. Graduation rates displayed in Table 4-8 are those reported to the national database (IPEDS), which counts only students who matriculated at and graduated from the same campus. As a result, the rates presented in the figure above differ slightly than those displayed in Table 4-8. Source: Office of Institutional Research, University of Minnesota

Table 4-8. Six-year graduation rates (class matriculating in 2010), Crookston campus and comparison group institutions

<table>
<thead>
<tr>
<th>Institution</th>
<th>6-year Graduation Rate</th>
<th>Institutional Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>U. of Minnesota–Crookston</td>
<td>54%</td>
<td>1</td>
</tr>
<tr>
<td>U. of Wisconsin–Platteville</td>
<td>54%</td>
<td>1</td>
</tr>
<tr>
<td>U. of Wisconsin–River Falls</td>
<td>54%</td>
<td>1</td>
</tr>
<tr>
<td>U. of Pittsburgh–Johnstown</td>
<td>53%</td>
<td>4</td>
</tr>
<tr>
<td>SUNY Col. of A&amp;T at Cobleskill</td>
<td>51%</td>
<td>5</td>
</tr>
<tr>
<td>Northern State U.</td>
<td>50%</td>
<td>6</td>
</tr>
<tr>
<td>Southwest Minnesota State U.</td>
<td>50%</td>
<td>6</td>
</tr>
<tr>
<td>U. of Tennessee–Martin</td>
<td>50%</td>
<td>6</td>
</tr>
<tr>
<td>Northwest Missouri State U.</td>
<td>49%</td>
<td>9</td>
</tr>
<tr>
<td>Lake Superior State U.</td>
<td>42%</td>
<td>10</td>
</tr>
<tr>
<td>Indiana U.–Kokomo</td>
<td>39%</td>
<td>11</td>
</tr>
<tr>
<td>Northwestern Oklahoma State U.</td>
<td>26%</td>
<td>12</td>
</tr>
<tr>
<td>Comparison Group Average</td>
<td>48%</td>
<td>-</td>
</tr>
</tbody>
</table>

Source: Integrated Postsecondary Education Data System (IPEDS)
ROCHESTER CAMPUS

At the University of Minnesota Rochester, relationships drive today’s student success for tomorrow’s health innovation. The campus is distinctive in its approach to undergraduate education and research, with faculty engaged in educational inquiry that informs pedagogical and curricular practice. With an academic focus in the health sciences, students complete a foundational set of integrated core courses and an individualized capstone in one of six health career pathways: patient care; research and discovery; emerging health technologies; resilience, well-being, and mental health; the business and leadership of healthcare; and public policy and global health. All students progress toward defined learning and development outcomes, engaging in all of the high-impact practices identified by the American Association of Colleges and Universities: learning communities, first-year experiences, common intellectual experiences, writing-intensive courses, collaborative assignments and projects, undergraduate research, global learning, community-based learning, internships, and capstone courses and projects. Additional practices driving student success include student success coaches, the Just Ask Center for faculty-student interaction, and living, learning communities.

Offering a Great Student Experience on the Rochester Campus

Extraordinary Core Curriculum and Research-Fueled Instruction

Pedagogical decisions are made based on teaching and learning research, which has led faculty and staff to focus on the quality of relationships between educators and students and among student peers. The student experience is characterized by a number of distinct aspects:

- Collaborative, flipped, and active learning are routine, replacing traditional lecture formats not supported by research on long-term memory.
- Rigor begins on day one. For example, first-year students start with organic chemistry and statistics, and engage in original research presented at a first-year symposium.
- Relevance and efficiency are standard, with healthcare contextualization in all coursework and learning outcomes aligned with employers’ needs.
- Academic support is personal and available in the Just Ask Center staffed by teaching and subject-matter specialists.
- Student development support is personal and available with the distinctive student success coaching model and a focus on wellbeing that is integrated into curricular and cocurricular endeavors.
- Collaborative, interdisciplinary teaching teams enhance student learning and development.
- Writing instruction is integrated into the curriculum and supported by writing specialists.
- Community-based learning is valued and thus required, and intercultural learning is advanced through a comprehensive, intentional approach.
- Covenant-based living, learning communities support student belonging, accountability, and leadership development.
- Grand challenges of 21st-century healthcare frame student learning and development in and out of the classroom.
- Intentionality and coordination in the design and assessment of the curriculum further enhance student learning as faculty commit to “our curriculum” rather than “my course.”

Extraordinary Customization and Efficiency

As students emerge from their foundational learning and development having participated in intentional career pathway exploration, a customized learning experience occurs in their junior and senior years. All students engage deeply in community-based learning, after which they determine, propose, enact, and present an individualized, self-directed, capstone experience tailored to their emerging interests and aligned with a specific health career pathway. From one efficient, innovative undergraduate degree, unlimited healthcare careers in high-demand arenas are possible. This individualized capstone approach allows for ongoing adaptation as workforce demand in the health industry changes rapidly.
Extraordinary Expectations for Success and Evidence-Driven Decisions

With a highly diverse student body, this visionary, strategic campus has no achievement gap to date, and is seeking to sustain that outcome while faculty investigate the combination of practices that are driving this success. Each student’s distinctive undergraduate educational journey is guided by a success coach, with student learning and development outcomes assessed in both curricular and cocurricular endeavors. Results of faculty research are informing revisions of student outcomes, an assessment plan, and the campus approach to optimizing distinctive sets of high-impact practices.

Expanding Access to the Rochester Campus

A grand challenge for the healthcare industry is diversifying the workforce. According to a U.S. Department of Health and Human Services report, one of the most compelling reasons is that a “more diverse health professions workforce … will lead to improvements in public health” (2006).

Supporting diversity in the professional healthcare workforce requires first providing access and success at the undergraduate level. The Rochester campus is accessible to a wider range of students and their success is supported through personalized academic programming, life coaching, and a rigorous curriculum.

The campus recruits, values, and remains accessible to students with interest and passion in the health sciences. As depicted in Figure 4-R, the Rochester campus has a diverse student body reflecting its grounding values of human potential, diversity and inclusion, community, respect, and evidence-based decision-making.

The Rochester campus is uniquely positioned to support students and prepare them for their professional futures. Students of color on the Rochester campus succeed at the same or greater rates than their peers. This evidence reveals the effectiveness of the campus’s approach to undergraduate education, with established research-based, high-impact practices enhancing student success. In addition, the campus supports multiple covenant-based living, learning communities that increase students’ sense of belonging and accountability—two key variables for the success of traditionally aged undergraduate students.

All Rochester students complete a series of courses designed to support student success, professional exploration, and other developmental outcomes. Students who transfer into the Health Sciences program work closely with the director of student success coaching and their assigned student success coach to make their transition efficient. Students who transfer into the Health Professions program connect directly and are supported through their academic program by a transfer coach to serve their specific needs. Retention rates (Figure 4-S) are one indication of this accessibility and academic support.

The Rochester campus is also focused on promoting an environment of health and well-being, important to the integrity of a health-focused campus located in a...
Health-focused city. To support students, the campus has hired a licensed psychologist to provide student counseling, intervention, crisis response, training, and education on the issues of mental health, while health and well-being are emphasized in all aspects of campus life.

Preparing Rochester Campus Graduates for Success

Six classes of students have now graduated from Rochester. Figure 4-T indicates the numbers of degrees awarded, with increases expected moving forward. Of the students who have graduated in the first six classes, more than 90 percent have “finished in four,” a commitment central to the Rochester approach to undergraduate education (Figure 4-U) (Progress Card Measure).

Figure 4-U. Four-, five-, and six-year graduation rates of first-time, full-time undergraduate students, Rochester campus, classes matriculating in 2009–2014

*Rates include graduates who transferred to another University of Minnesota campus.

Source: Office of Institutional Research, University of Minnesota
Bachelor of Science in Health Sciences graduates are moving into a range of positions, including but not limited to:

- **Patient Care**: medicine, dentistry, pharmacy, occupational therapy, physical therapy, nurse practitioner, physician’s assistant, medical scribe.

- **Healthcare Research and Discovery**: Ph.D.s in a wide range of arenas addressing the grand health challenges of the twenty-first century including genomics, chemistry, biochemistry, epidemiology.

- **Emerging Health Technologies**: bioinformatics, artificial intelligence, medical lab science, biomedical engineering, electronic medical records.

- **Resilience, Well-being, and Mental Health**: social work, counseling psychology, addiction and recovery counseling, health and wellness coaching, integrative medicine.

- **The Business and Leadership of Healthcare**: healthcare administration, healthcare policy, MBA in health innovation.

- **Public Policy and Global Health**: law school, elected office, global health educator, public health educator.

### Extraordinary Future UMR 2.0

In the first ten years of serving students, the Rochester campus has established nationally distinctive outcomes and a research-based undergraduate health sciences program. The campus will now work to sustain innovation, agility, efficiency, and excellence to address the ever-evolving needs in higher education and health care. As stated in the campus’s strategic plan, Rochester will inspire transformation in higher education through innovations that empower graduates to solve the grand health challenges of the 21st century. For example:

- to further serve the citizens of Minnesota and the demands of the healthcare industry in the region, the campus will continue growth in student enrollment while sustaining an innovative, high-impact approach to education and will construct a long-range plan for scaling the campus;

- to further serve student learning and development, the campus will explore additional avenues for University system partnerships to expand graduate and professional school pathways to high-demand health careers; community partnerships to enhance community-based learning; and industry partnerships to connect healthcare employers directly to their future workforce;

- to further student academic achievement while addressing the challenges of higher education, the Rochester campus will document, assess, enhance, and share its pedagogical innovation with a longitudinal study to determine the source of success with underrepresented students; and

- to share the Rochester campus story nationally and continue to grow in influence, the campus will invite dialogue with other higher education innovators through a biennial Higher Education Innovation Summit based on the success of the first summit, held in June 2018 and drawing participants from 30 institutions and three countries.
Graduate Education

Graduate education and postdoctoral training—defined as degree programs and postdoctoral positions that are primarily focused on research or creative activity—are essential to the University’s impact on the state and nation, as well as its standing as a world-class institution (for more about professional programs, whose graduates most often seek applied professional or practice-based employment, see the next chapter). Training and graduating young scholars who are prepared to be leaders is the mark of a great research university—and preparing future leaders is crucial not only for academia, but also for industry, government service, the arts, and nonprofit work.

A common misconception of graduate education and postdoctoral training is that it exists primarily to train the next generation of faculty. In fact, less than half of graduate students and postdoctoral scholars will pursue careers in academia. While graduate students and postdoctoral scholars are clearly part of a particular discipline and scholarly community, the exact career paths that follow their studies or training are quite variable.

To assist colleges in developing and maintaining excellent programs that prepare graduate students and postdoctoral scholars to be successful in whatever paths they choose, the Graduate School recently completed a five-year strategic plan. The plan identifies four strategic objectives to facilitate and advocate for excellence in graduate education and postdoctoral training:

• increase the diversity of students receiving graduate degrees and postdoctoral training;
• increase innovation of best practices in graduate education and postdoctoral training;
• advocate for, recognize, support, and reward excellence in graduate education and postdoctoral training; and
• provide consistently exceptional service to graduate students, postdoctoral scholars, graduate programs, colleges, and campuses.

The Graduate School has developed a number of new initiatives which, along with ongoing programs and projects, support these strategic objectives.

Attracting Students

Recruiting and Retaining Outstanding Students from Diverse Populations

The Graduate School promotes a vibrant student body and a welcoming campus climate in order to accelerate the diversity of thought, varied career paths, and cross-disciplinary dialogue that contribute to a quality education and the strength of discoveries.

In addition to supporting college-level activities to promote the recruitment and retention of a high-quality, diverse student body, the Graduate School supports a number of systemwide events and initiatives that enhance collegiate diversity efforts. For example, the DOVE Fellowship Program assists graduate programs with recruitment and support of academically excellent students with diverse ethnic, racial, economic, and educational backgrounds and experiences. During 2018, 21 students received DOVE Fellowships.

As successful as the DOVE program has been, however, admitting a single DOVE fellow to a graduate program is unlikely to lead to a sustained increase in diversity. To assist programs in their efforts to increase and sustain the diversity of students receiving graduate degrees, the Graduate School piloted a new recruitment initiative in 2018. This pilot program provided each selected graduate program with multiple recruiting fellowships to students.
from underrepresented communities in one year. Seven programs from five colleges were selected to participate in the pilot project. Of 42 fellowship offers made, 24 were accepted.

Following this successful pilot, the Graduate School established the Creating Inclusive Cohorts (CIC) Training Program. Through the CIC, the Graduate School will provide each selected graduate program with multiple recruiting fellowships for students from underrepresented communities in one year, as well as assistance to the program in recruitment. Similar to a training grant, the program will also be expected to develop specific support and training to the recruited cohort of students to enhance student retention and graduation. The Graduate School Diversity Office will work with the participating graduate programs to develop supportive local communities that will promote excellence through diversity. The Graduate School’s goal with the Creating Inclusive Cohorts Training Program is to increase the likelihood that graduate programs will experience increased future success in matriculating and graduating students from underrepresented populations. Each program will be able to offer a Graduate School Fellowship to six admitted students, with the expectation that a minimum of three students will be successfully recruited to the program as a cohort.

During the summer, Regional McNair Scholars from surrounding institutions are invited to a Graduate School Visitation Program on the Twin Cities campus. These students are either first-generation college students with financial need or members of a group that is traditionally underrepresented in graduate education and have demonstrated strong academic potential. The day consists of a presentation about the process of applying for admission to graduate programs, meetings with faculty and staff to discuss their research, and a tour of the campus. 225 McNair Scholars—a record number—visited the Twin Cities campus during three separate events in 2018.

Nationally, in 2016 42 percent of Ph.D.s were awarded to non-white students. Table 4-9 shows that from 2008–2009 to 2015–2016, the University experienced a 5.8 percent drop (from 903 to 851) in the number of enrolled graduate students from these communities. Since the reorganization of administrative support for graduate and professional programs and the development of the Graduate School’s focus on diversity, the number of enrolled students from these communities has risen 11.6 percent from 851 to 950.

Table 4-9. Enrollment in graduate degree programs by ethnicity, University of Minnesota, 2008–2018

<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Am. Indian</td>
<td>70</td>
<td>66</td>
<td>60</td>
<td>68</td>
<td>71</td>
<td>76</td>
<td>73</td>
<td>76</td>
<td>85</td>
<td>94</td>
<td>101</td>
<td>44.3%</td>
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<tr>
<td>Asian</td>
<td>450</td>
<td>453</td>
<td>448</td>
<td>449</td>
<td>465</td>
<td>456</td>
<td>441</td>
<td>411</td>
<td>398</td>
<td>410</td>
<td>424</td>
<td>-5.8%</td>
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<tr>
<td>Black</td>
<td>211</td>
<td>195</td>
<td>181</td>
<td>181</td>
<td>159</td>
<td>161</td>
<td>151</td>
<td>149</td>
<td>156</td>
<td>173</td>
<td>187</td>
<td>-11.4%</td>
</tr>
<tr>
<td>Hawaiian-Pac. Islander</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>6</td>
<td>5</td>
<td>8</td>
<td>7</td>
<td>10</td>
<td>8</td>
<td>6</td>
<td>8</td>
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<tr>
<td>Hispanic</td>
<td>181</td>
<td>186</td>
<td>187</td>
<td>182</td>
<td>185</td>
<td>179</td>
<td>181</td>
<td>192</td>
<td>204</td>
<td>218</td>
<td>230</td>
<td>27.1%</td>
</tr>
<tr>
<td>Total</td>
<td>915</td>
<td>903</td>
<td>878</td>
<td>886</td>
<td>885</td>
<td>880</td>
<td>853</td>
<td>838</td>
<td>851</td>
<td>901</td>
<td>950</td>
<td>3.8%</td>
</tr>
</tbody>
</table>

Source: Graduate School, University of Minnesota
Table 4-10. Total funding for graduate assistants, fellows, and trainees based on expenditures, fiscal years 2014–2018

<table>
<thead>
<tr>
<th></th>
<th>FY14</th>
<th>FY15</th>
<th>FY16</th>
<th>FY17</th>
<th>FY18</th>
<th>5-year change</th>
</tr>
</thead>
<tbody>
<tr>
<td>O&amp;M</td>
<td>$78,387,582</td>
<td>$83,807,619</td>
<td>$85,717,270</td>
<td>$90,191,713</td>
<td>$92,742,528.60</td>
<td>+16.1%</td>
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<tr>
<td>Sponsored</td>
<td>$56,448,220</td>
<td>$57,063,613</td>
<td>$60,004,779</td>
<td>$62,755,976</td>
<td>$28,393,458.64</td>
<td>+5.3%</td>
</tr>
<tr>
<td>Other</td>
<td>$25,838,896</td>
<td>$25,554,690</td>
<td>$27,402,672</td>
<td>$27,596,134</td>
<td>$62,883,758.56</td>
<td>+19.5%</td>
</tr>
<tr>
<td>Total</td>
<td>$160,674,699</td>
<td>$166,425,921</td>
<td>$173,124,721</td>
<td>$180,543,823</td>
<td>$184,019,746</td>
<td>+12.6%</td>
</tr>
</tbody>
</table>

Source: Graduate School, University of Minnesota

to make such a choice, the Bridging Funds program was expanded to provide coverage for any funding shortfall associated with competitively awarded external fellowships. During 2017–2018, Bridging Funds were awarded to 138 graduate students.

**Offering a Great Student Experience**

As the state’s designated research institution, the University has the responsibility to provide graduate students and postdoctoral scholars with a great experience and an extraordinary education so that they can conduct breakthrough research, generate new knowledge, drive growth in the economy, and become the next generation of leaders.

**Graduate and Professional Student Welcome and Orientation**

The University organizes annual activities for new graduate and professional students. This includes a new-student orientation session, offered to all graduate and professional students on the Twin Cities and Duluth campuses. Although many programs provide local orientation for their students, the campus-wide event helps new students connect with one another and begin to build a graduate community.

More than 1,400 students representing 16 colleges registered for the 2018 event. Following the formal presentations, graduate students had the opportunity to network and mingle with others, meet student groups, and participate in a writing activity designed to encourage them to share their interests, hopes, aspirations, and concerns as they begin their graduate education experience.

The Graduate School also hosts a resource fair to introduce new students to a wide range of University resources and service units to help them succeed, including One Stop Student Services, Boynton Health, and the Office of Student Finance. Nearly 1,000 students registered for the 2018 fair, which featured nearly 60 exhibitors.

In response to the increasing demand for a central graduate student orientation, online resources are being expanded and orientation activities focused on the system campuses will be launched during spring 2019 to better serve all new students.

**Summer Institute**

The Summer Institute, a seven-week program that takes place on the Twin Cities campus before the academic year begins, helps create a welcoming and inclusive climate for entering graduate students of color and students from underrepresented backgrounds. During the summer, students work with a faculty mentor to build networks of support across the University, develop a research topic, and attend weekly seminars on communicating with faculty and proposal writing. During 2018, a record 44 graduate students from 28 programs took part in the institute, the greatest number since its inception in 1998.

**Grad Chat**

To keep graduate education leaders in touch with the interests, issues, questions, and challenges that matter most to graduate students, Grad Chat was established in September 2018. Grad Chat is a series of events in which small groups of randomly selected graduate students are invited to join the vice provost and dean of graduate education for a conversation in which the students create the agenda. Any subject related to graduate education is open for discussion.
Diversity and Inclusion
As a response to graduate students and postdocs expressing interest in connecting with others across disciplinary and cultural barriers to effect institutional change, the Graduate School coordinated establishment of the Graduate Student and Postdoctoral Alliance for Diversity and Inclusion during 2018. The group provides opportunities for all graduate students and postdoctoral researchers to work collectively on issues that support diversity and inclusion through education, advocacy, networking, discussion, cross-pollination, recognition, and celebration. More than 30 graduate students and postdocs participated in focus groups to help inform the purpose of the alliance. This student- and postdoc-led group now has more than 360 members.

The Graduate School Diversity Office developed a video featuring current faculty and students that serves as a tool to help graduate programs recruit, retain, and graduate students from underrepresented populations. This tool is used to address departmental culture with faculty and staff to ensure a welcoming climate for diverse graduate students.

Community of Scholars Program
The Community of Scholars Program (COSP) works toward creating an environment that supports the academic and professional success of graduate students who are underrepresented in academia.

During 2018, COSP created a new Writing Program Coordinator position, which allowed the program to offer writing retreats, faculty panels on writing and publishing, small writing groups, and individual writing consultations to COSP graduate students. In addition, the Hennepin County summer internship program, which introduces COSP students to work environments in the government sector while gaining research and administrative skills, grew from three to nine participants this year. Two COSP students participated in the predoctoral fellowship program, teaching one course per semester at system campuses while writing their dissertation and being mentored by senior faculty.

COSP was selected as the recipient of the 2018 Promotion of Excellence Award, which is presented by NAGAP, the Association for Graduate Enrollment Management, to an individual or team that has developed or implemented processes, policies, events, or technologies that demonstrate best practices, creativity, and/or innovation in graduate enrollment management and that could serve as a model across the profession.

Graduate School Advisory Board
The Graduate School’s recent strategic planning process and conversations with the University’s Graduate Education Council revealed the need for a new advisory structure with more opportunity for faculty, students, and postdocs to advise on matters of strategic priority in graduate education and postdoctoral training.

This led to the formation of the Graduate School Advisory Board (GSAB), which replaced the Graduate Education Council in June 2018. The board focuses on issues of institutional, national, and global importance and best practices in graduate education and postdoctoral training and advises the vice provost and dean of graduate education on these matters. Board members serve as representatives of, and advocates for, graduate education and postdoctoral training to the internal University and external communities. The vice provost and dean of graduate education and a GSAB faculty member cochair the Graduate School Advisory Board. Its membership includes 15–20 elected faculty members, three postdocs, and five graduate students who represent the spectrum of University graduate and postdoctoral disciplines and campuses. All University of Minnesota tenured and tenure-track faculty with graduate education responsibility, master’s and doctoral students from research-based programs, and postdoctoral associates and fellows are eligible to serve on the GSAB.

Preparing Faculty & Staff to Provide a Great Graduate Student Experience

Advising
The quality of advising is strongly correlated with graduate student success and satisfaction. The vast majority of issues brought by graduate students to the Student Conflict Resolution Center are about the
advisor/graduate student relationship, most of which could be avoided if the faculty member was aware of, and employing, advising best practices. While most faculty are very interested in learning about best practices in advising, they have not received any guidance on how to be an effective advisor. An advising tool kit targeting faculty at all career stages is being developed for launch in 2019. The tool kit will include resources and online modules covering topics such as culturally competent advising, supporting career exploration and development, and effective communication in advising/mentoring relationships.

As part of the Graduate School’s strategic plan, directors of graduate studies (DGSs) are being provided with training and resources that will help them use their time more efficiently, be more effective as leaders of their program, and increase the likelihood that faculty will adopt the Graduate School’s priorities for graduate education. These include strengthening the role of DGSs in communicating expectations about the advising relationship to graduate students and faculty, and encouraging the adoption of best advising practices at the program level.

The Graduate School is also partnering with the vice provost for faculty and academic affairs to offer workshops on advising best practices to new faculty during the academic year. In Spring 2019, a half-day advising retreat will be piloted with early-career faculty from the College of Food, Agricultural and Natural Resource Sciences, and will be adapted and expanded to other colleges during the 2019–2020 academic year.

**Graduate Education Goals**

In recent years, university accreditation agencies have begun to stress learning outcomes in graduate education. During 2012–2013, the Graduate School launched an initiative to have all graduate programs identify program-specific educational goals and methods to assess their students’ attainment of them. A majority of programs have since articulated both educational goals and a framework for assessing student outcomes, and many have completed the assessment phase of the initiative, analyzed results, and implemented programmatic improvements based on the evidence gathered. During 2018, each research-based graduate program was asked to report on changes the program has made, or plans to make, in the program curriculum and related processes as a result of evidence collected through the assessment process. The Graduate School is in the process of analyzing this data to look for trends, common themes, and best practices that could be shared among programs. In addition, individual directors of graduate study are advising the Graduate School on how to best support, build on, and sustain ongoing self-assessment and program improvement.

**Support for Graduate Staff and Faculty**

To provide prospective and current students, faculty, and colleges with the data they need to make informed decisions, the Graduate School developed in 2018 a set of college-specific data portals with information about applications, admissions, matriculation, enrollment, time-to-degree, completion rates, demographics, graduate student involvement, graduate student competitiveness, and University-wide survey results.

In addition, the Graduate School reviewed program-level results from the gradSERU survey, the University’s primary opportunity for graduate students to provide graduate programs and colleges with anonymous feedback about their experiences. The survey is comprehensive and the results can be somewhat overwhelming, so to help each of the programs focus on the particular areas that are of most importance to them, the Graduate School identified the survey questions for which a program was an outlier—meaning that responses to a particular question were at least 1.5 standard deviations from the University mean. The Graduate School then developed a report for each college that consolidated this information, with a particular emphasis on two sections, “Program and Campus Climate” and “Advising and Mentoring.” Results were shared with college deans and associate deans during in-person meetings with the vice provost and dean of graduate education.

The Graduate School Admissions Office developed and implemented a new admissions system to better support prospective students and graduate program admissions efforts. The Graduate School also launched a new website in fall 2018 with a particular focus on an improved user experience and accessibility. The new site provides users with easy access to the information they expect to find and
additional, strategically important information helps to attract, recruit, and retain graduate students and helps to promote an environment of inclusion and excellence.

Support for Postdoctoral Researchers
As part of its strategic plan, the Graduate School established the Office of Postdoctoral Initiatives to provide a central place where postdoctoral fellows and associates can find resources and raise concerns related to the postdoc experience. Additionally, the Graduate School surveyed all postdoctoral scholars at the beginning of 2018 to identify the issues that were most important to them; responses are helping shape the strategic vision for the newly created office.

Preparing Graduates for Success
With graduate education and postdoctoral training, students are expected to acquire deep knowledge of a discipline, and then be able to use that knowledge—both the content and the methodologies of the discipline—to create new knowledge and perhaps also to challenge existing understanding. In addition, the institution’s role is to prepare them for the increasingly complex environment in which they will find themselves after they leave the University.

It is essential that graduates and postdoctoral scholars have transferable skills in addition to disciplinary knowledge—for example, the ability to communicate effectively with different audiences, work in teams, be multiculturally competent, manage projects, and be leaders. Increasingly, the deep disciplinary knowledge and skills received in their graduate and postdoctoral training is what gets them the interview, but it is very often the transferable skills and interdisciplinary knowledge that gets them the job offer. The University offers opportunities and resources for graduate students and postdoctoral scholars to explore, to engage, and to extend themselves beyond their disciplines as they prepare for their future careers.

Academic and Career Development
Academic and career development support for graduate students and postdoctoral scholars varies widely by college and program. To provide academic and career development resources to all graduate students and postdoctoral scholars, the Graduate School partners with units to deliver workshops and trainings on topics such as proactive planning; the academic/non-academic job search; resume/CV and cover letter writing; and how to manage stress.

In partnership with the Office for Student Affairs, the Graduate School distributes the Academic, Career & Campus Update, a biweekly email with information about academic and professional development opportunities across campus. This has been an effective tool for increasing student, postdoc, staff, and faculty awareness of the opportunities available and has led to more efficient use of limited resources.

Graduate students and postdoctoral scholars have indicated that they would like to access more training opportunities online. The Graduate School is currently working on identifying the gaps in online resources and developing content to meet the needs of graduate students and postdoctoral scholars systemwide.

The University also helps students learn to communicate effectively with different types of audiences through events such as the Doctoral Research Showcase, which provides a casual and conversational environment for recipients of the Interdisciplinary Doctoral Fellowship and the Doctoral Dissertation Fellowship to present their research to faculty, staff, students, and friends of the University.

The Graduate School hosted the second annual University-wide Three Minute Thesis competition in November, a research communication competition that challenges students to communicate the significance of their projects without the use of props or industry jargon in just three minutes. The exercise develops academic, presentation, and research communication skills and supports the development of research students’ capacity to quickly explain their research in language appropriate to a non-specialist audience, leaving them wanting to know more. The winner will represent the University in the Midwest Association of Graduate Schools’ regional competition in the spring.

Publicly Engaged Graduate Education
Community-based experiential opportunities involving graduate students are a key strategy for incorporating public engagement with academics. Programs and initiatives are designed to connect graduate students with social issues to enhance
students’ academic, professional, personal, social, career, and civic development.

Graduate-level, community-based research and scholarship opportunities such as thesis and capstone projects, internships, and clinical practica are routinely found in many programs. This past year, the University offered an array of programs to expand graduate students’ community-based experiences.

For example, two graduate education programs facilitated by the Interdisciplinary Center for the Study of Global Change hosted twelve scholars from twelve academic departments within five colleges and schools. The scholars—from countries including Colombia, the United States, Ghana, India, and Guadeloupe—studied the global south in the context of global change.

Interdisciplinary Research and Scholarship
Graduate students are increasingly drawn to large, complex questions that lie at the intersection of traditional disciplines. The University—with its land-grant mission, extraordinary disciplinary breadth, excellent faculty, and state-of-the-art facilities—is well-situated to provide excellent interdisciplinary graduate education for the many students attracted to Minnesota by the opportunities the University offers for solving the world’s grand challenges.

To facilitate interdisciplinary research and scholarship, the Graduate School continues to offer the Interdisciplinary Doctoral Fellowship (IDF), which provides a unique opportunity for outstanding Ph.D. students who are engaged in interdisciplinary research to study with faculty at one of the University’s interdisciplinary research centers or institutes during the fellowship year. The award includes a stipend of $25,000 for the academic year, tuition, and subsidized health insurance. Twenty-three graduate students received the IDF for the 2017–2018 academic year.

The Graduate School is also partnering with the Office of the Executive Vice President and Provost to promote opportunities for graduate students and postdocs to participate more extensively in the Grand Challenges Research Initiative.

Tracking Student Outcomes
Since fall 2017, the Graduate School has participated in the Council of Graduate Schools’ “Understanding Ph.D. Career Pathways” project in an effort to track graduate students’ careers and job placement outcomes. This multiyear project involves surveying Ph.D. alumni and current Ph.D. students to evaluate how well graduate programs are preparing students for their chosen career paths. It will also provide comparable data from the other participating institutions. The goal is to help faculty understand the career paths their students are following so that curriculum, career services, professional development opportunities, and advising might be strengthened to better meet the needs of students pursuing diverse career paths.
Professional Education

The University of Minnesota offers nearly 100 professional degrees as well as certificates and other experiences at the postbaccalaureate level. These programs often attract students whose primary objective upon completion is to acquire an applied professional or practice-based job outside the typical academic or research environment. These programs are often shaped by ethics or principles established by the respective industry or profession, guided by quality standards enforced by a professional association or accreditation body, or require professional licensure or passage of examination to practice. (For more about graduate education and postdoctoral training—defined as primarily focused on research or creative activity—see the previous chapter.)

Professional programs are offered on the Duluth, Rochester, and Twin Cities campuses in fields including education, design, business, science, engineering, public policy, and many more. Examples of professional degrees are the Master of Education (M.Ed.), Doctor of Education (Ed.D.), Doctor of Audiology (Au.D.), Master of Engineering (M.Eng.), Master of Health Informatics (M.H.I.), Master of Public Policy (M.P.P.), Master of Social Work (M.S.W.), Master of Tribal Administration and Governance (M.T.A.G.), Master of Urban and Regional Planning (M.U.R.P.), Master of Architecture (M.Arch.), Master of Landscape Architecture (M.L.A.), and Master of Accountancy (M.Acc.). In addition, the University of Minnesota Law School offers comprehensive legal education that prepares students to become skilled and ethical professionals. These graduates are leaders and innovators in the legal profession, the business and nonprofit communities, and every branch of government at both the state and national levels.

Health professions education is provided through the School of Dentistry, Medical School, School of Nursing, College of Pharmacy, School of Public Health, College of Veterinary Medicine, the Center for Allied Health Programs, and associated programs and centers on the Duluth, Rochester, and Twin Cities campuses. In collaboration with affiliated health systems, the University also trains over 1,200 pharmacy, medical, and dental primary care and specialty residents each year.

Recruiting and Retaining Outstanding Students from Diverse Populations

Recruiting, training, and graduating diverse students who will become teachers, policy makers, counselors, social workers, and other professionals to serve communities is a priority for the University, as well as a point of emphasis for many professional accreditation associations. As such, the University is committed to maintaining access to its professional degree programs for members of the military, students of color, first-generation students, and others with diverse backgrounds and experiences.

For the past three years, the University has piloted a Professional Education Diversity Fellowship, which provides $300,000 of support that parallels the DOVE (Diversity of Views and Experiences) fellowships for the recruitment of academically excellent graduate students with diverse ethnic, racial, economic, and educational backgrounds and experiences.

Since 2015, the admissions office that serves most professional programs has waived the application fee for all McNair Scholars. These are nationally
recognized scholars who are either first-generation college students unable to afford postbaccalaureate education or underrepresented students with a strong demonstrated academic record. This fee waiver is in addition to that for active military personnel or veterans that has been in place since 2013. Another example is the application fee grants that the Humphrey School of Public Affairs offers to Pickering Fellows, Truman Scholars, and other outstanding applicants with an interest in the fields of public/foreign affairs and public service leadership as well as those with demonstrated financial need.

The Master of Landscape Architecture in the College of Design has had success recruiting and retaining diverse students by leveraging national fellowships, such as the Ager Fellowship and the Clinton N. Hewitt Prize, as well as the department’s Research Assistants in Practice program, in which students partner directly with nonprofit organizations, government agencies, or firms. In addition, Design continues its focused work on making the undergraduate college climate more inclusive and equitable to encourage current underrepresented students to apply for our professional programs.

The Master of Social Work in the College of Education and Human Development (CEHD) has multiple strategies to recruit and attract students from diverse backgrounds, including graduate recruitment fairs, scholarship funds dedicated to supporting underrepresented populations, and key partnerships with various external stakeholders. For example, the School of Social Work has cultivated a diverse student body to work in child protective services by offering Title IV-E funding opportunities via a partnership with Kente Circle, an agency specializing in mental health services in the African American community. The school also partners with the Office for Business and Community Economic Development to offer significant financial support through the Community Health Initiative sponsored by Medica and matched by School of Social Work scholarships from the Rose Snyder Fund. Beyond just partnering for funding support, a number of local agencies that serve diverse populations work with the M.S.W. program by providing training opportunities for students through supervised internships. Along with Kente Circle mentioned above, these agencies include the Indian Child Welfare Act unit at Hennepin County (child welfare services for Native American clients), Wilder’s Southeast Asian Program, World Relief (serving refugee and immigrant communities), and the Brian Coyle Center (serving Somali immigrants). Each month the school invites these agencies to engage in on-campus dialogues with M.S.W. students to promote awareness of services and community needs.

The Curriculum and Instruction department within CEHD also prioritizes the recruitment and retention of students from diverse backgrounds. In 2016, the department created the Teacher-Scholars of Color program, dedicated to supporting all students of color in the teacher education program. The program provides numerous resources to enhance retention efforts such as: faculty program coordinators for mentorship, opportunities to attend professional meetings and network with community organizations that serve youth of color, access to school-based mentors of color in local districts, and ultimately, a space to gather with peers to collaborate and network.

The Carlson School of Management supports the recruitment and retention of women through a strategic women’s initiative that features productive engagement with the Forté Foundation, Women in Business (WIB), and the National Association of Women MBAs (NAWMA), as well as a slate of activities throughout the year such as an annual Women’s Leadership Conference, Women in Finance, and Women in Entrepreneurship conferences. The school also has made a concerted effort to raise more fellowship support for women and supports M.B.A. students with a travel stipend program and on-site career services to support student participation in annual affinity conferences such as the National Black MBA Association, National Society of Hispanic MBAs, Asian MBA, and others. Each year the school hosts high-ability prospective M.B.A. students from diverse backgrounds. Veterans initiatives, such as philanthropic support for fellowships, remain strong and have been successful for the M.B.A. program. Camp Emerge is a full-time M.B.A. program launched in 2017 as a residential pipeline-building experience for 25 women and minority undergraduate students, the vast majority of whom were not previously considering careers in business. Veterans initiatives, such as philanthropic support for fellowships, remain
strong and have been successful for the M.B.A. program, with over 225 veteran students enrolling in Carlson M.B.A. programs since 2012.

The Humphrey School of Public Affairs has student affinity groups that provide professional development, advocacy, and social support opportunities for diverse students, including the Humphrey Students of Color Association, Humphrey Association for Disability and Mental Illness, Humphrey Gender, Sex, and Policy Event Committee, and the Humphrey International Student Association. The Humphrey School is also home to the national office of the Public Policy and International Affairs program (PPIA), an organization that creates programs and strategies to engage and recruit students to the world of public affairs generally, and public affairs graduate programs more specifically. Through PPIA, the Humphrey School hosts an annual Junior Summer Institute, a rigorous seven-week program that prepares undergraduate students to thrive in graduate programs and launch careers in public service. Fifteen to twenty students from underrepresented backgrounds and hailing from undergraduate institutions around the country complete the program each year.

The Humphrey School is actively partnering across the University system, including with the Morris campus. Humphrey faculty, staff, and leadership have visited Morris several times to develop partnerships for recruiting and retaining students from diverse backgrounds, pipelines for students from undergraduate programs to graduate school, and other initiatives.

Health Professions Education

Professional programs within the Academic Health Center (AHC) have made commitments to recruiting and retaining diverse groups of students (Table 4-11). AHC schools work to attract and enroll students from diverse backgrounds by using holistic admission processes and offering scholarships, financial planning, and counseling services to help make education as accessible as possible.

The School of Public Health prides itself in its open, welcoming environment grounded in respect. More than 1,400 students receive their education in public health, with 21 percent being American Indian students and students of color and with 48 countries represented by international students. Some of the school’s diversity and inclusion initiatives include:

- “SPH in Color,” monthly student discussion group for American Indian students and students of color to discuss issues of access and inclusion across the school;
- new minors in Global Health and in American Indian Health and Wellness;
- a new monthly brown-bag series known as “Edible Education” focuses on equity-based topics; and
- Dean John Finnegan cochaired President Kaler’s Initiative to Prevent Sexual Misconduct.

The College of Veterinary Medicine continues to recruit competitive students, including from 41 states and 4 countries in the first-year class alone. To promote diversity, the Veterinary Leadership through Early Admission for Diversity (VetLEAD) program offers a provisional early admission decision to high-ability students at partner institutions with historically diverse student bodies, waives the Graduate Record Examination (GRE) requirement for admission, and provides access to scholarship funds as well as opportunities for mentorship with veterinary faculty and advanced students. Two students were recruited from this program.

For the third consecutive year, the School of Nursing received the Higher Education Excellence in Diversity

Table 4-11. Racial and ethnic diversity of students enrolled in health professional programs, all campuses, 2014–2018

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Indian</td>
<td>1.3%</td>
<td>1.7%</td>
<td>2.4%</td>
<td>1.5%</td>
<td>1.7%</td>
</tr>
<tr>
<td>Asian/Pacific/Hawaiian</td>
<td>8.5%</td>
<td>9.3%</td>
<td>8.9%</td>
<td>10.7%</td>
<td>11.1%</td>
</tr>
<tr>
<td>Black/African American</td>
<td>3.9%</td>
<td>4.1%</td>
<td>4.3%</td>
<td>5%</td>
<td>5.5%</td>
</tr>
<tr>
<td>Hispanic</td>
<td>2.1%</td>
<td>2.5%</td>
<td>2.5%</td>
<td>2.9%</td>
<td>3%</td>
</tr>
<tr>
<td>International</td>
<td>2.8%</td>
<td>3.2%</td>
<td>3.3%</td>
<td>2.6%</td>
<td>2.4%</td>
</tr>
<tr>
<td>White</td>
<td>71.3%</td>
<td>70%</td>
<td>68.8%</td>
<td>68.9%</td>
<td>69.3%</td>
</tr>
<tr>
<td>Unknown</td>
<td>10.2%</td>
<td>9.3%</td>
<td>9.8%</td>
<td>8.4%</td>
<td>7%</td>
</tr>
</tbody>
</table>

Source: Office of Institutional Research, University of Minnesota
Award, a national recognition for demonstrating an outstanding commitment to diversity and inclusion. The Master of Laboratory Sciences program enrolls an average of 50 percent American Indian students and students of color each year. The program provides an employment gateway path into graduate-level professional health programs such as medical and pharmacy school.

In the Medical School, efforts continue to increase the diversity of incoming students with two pipeline programs. Minnesota Future Doctors provides critical coaching and support to its scholars as they develop competitive portfolios for their applications to medical school. Scholars meeting program expectations receive MCAT preparation courses and materials, American Medical College Application System support, research opportunities, physician shadowing, connections to health-related experiences, and individualized advising to assist with successful admission into medical school. A new B.A./M.D. pipeline program is a partnership with the University’s Office of Undergraduate Admissions and the College of Liberal Arts. Up to ten students from broadly diverse backgrounds participate as a cohort through a seven-year early-assurance program that leads to matriculation into the University’s Medical School after the third year. Over the past five years the percentage of students underrepresented in medicine has remained in the 18 to 20 percent range after a historical average of 8 to 9 percent.

Legal Professions Education
The Law School continues to recruit a highly qualified, talented, and diverse student body. The most recent entering class of J.D. candidates had a median LSAT at the 90th percentile nationally and a median undergraduate GPA of 3.76. Approximately 16 percent are students of color, and eight percent are from other countries. For the second time in its history—and the second year in a row—the Law School’s entering class was majority female. The size of the entering class was also the largest in the last seven years.

Students come from throughout Minnesota, from 34 other states, and from around the world. However, about two-thirds of graduates remain in Minnesota and become leaders in law firms and businesses, as well as in state and municipal governments and community organizations. In addition, the Law School has an LL.M. class of talented lawyers from across the globe who have come to Minnesota for a one-year master’s program designed to introduce them to the U.S. legal system. Highly successful members of the LL.M. class are able to transfer into the J.D. program.

After several recent years of declining enrollment consistent with national trends, the Law School saw a significant upswing in applications in the 2018 admissions cycle. For fall 2018, the incoming class size increased by 30 students over 2017, due to increases in both the number of applications and enrollment yield. The Law School has pursued multiple strategies to enhance recruitment. Students are more inclined to apply to highly ranked schools, and the Law School has a top-20 U.S. News and World Report ranking. Admissions staff and faculty members are extensively involved in recruitment through attendance at information sessions and law fairs around the country, informal meetings with visiting applicants, and phone calls to admitted students. The Law School has also partnered with an enrollment management consulting group, enhanced pipeline programming, partnered with alumni and bar associations, and developed compelling web and print promotional materials.

Because of the dramatic market shift in law school admissions nationwide since 2010, the Law School has increased its financial aid to admitted students to remain competitive; however, it has been able to keep its increases at levels that are at or below peer institutions. At the same time, the percentage of students graduating with no Law School debt has been increasing since 2011–2012, to 28 percent in the most recent reporting period; in the same period the average amount of Law School debt for the remaining students has decreased to $92,190 (which is much lower than the national average). The Law School continues to make fundraising for student scholarships one of its highest priorities.

The Law School has also taken steps to improve diversity and inclusion. It participates in pipeline initiatives to expose promising potential students from diverse communities to legal education, including the annual JTB-APO Summer Legal Institute for high school students, the Maslon UPLIFT program for middle schoolers, and the Minnesota Pre-Law Scholars Program for undergraduates, the latter of
which is a comprehensive summer-long law school and LSAT preparation course targeted to underrepresented Minnesota residents. The Admissions Office and Faculty Diversity Committee are also experimenting with outreach programs to connect prospective applicants with current law students and members of the local bar. Once students enroll, they have access to a range of courses taught from diverse perspectives, as well as extensive academic and bar preparation support. The Diversity Committee has driven efforts to expand programming support for affinity student organizations, with dedicated staff advising and funding to supplement student-driven practitioner panels, social events, and service projects. In January 2016, the Law School launched an annual MLK Convocation program, featuring distinguished panelists (such as Associate Justice Emeritus Alan Page ’78) addressing areas of legal inequity.

Providing Quality and Value in Professional Education

As the state’s flagship higher education institution, the University has the obligation to produce well-trained professionals that meet the workforce demands of local communities and beyond. Professional education at the University is responsive to the changing labor market landscape, as demonstrated by the following examples.

• The College of Design’s School of Architecture was ranked second by DesignIntelligence magazine as the most admired by landscape architecture professionals in the country. The Master of Architecture program has been ranked second as the most admired by deans and chairs. The Interior Design professional degree program was selected by hiring professionals as one that best prepares students for a future in their professions.

• Professional education programs in the Carlson School of Management are designed with a high level of public engagement embedded in the curriculum. Components like the M.B.A. Enterprise Programs (Brand, Funds, Consulting, and Ventures) and the M.S. LAB programs create unique and dynamic opportunities for students to engage in real-world challenges posed by clients. The M.B.A. and M.S. programs engaged in over 75 projects last year that included all full-time students and many working professional students who opt into electives. These courses are seen by many in the industry as best-in-class and difficult to replicate.

• Over the past several years, the Carlson School has transformed its delivery of curriculum to students. The part-time M.B.A. program’s online and compressed-format courses have risen from 5 percent enrolled in 2012 to over 50 percent in 2018. As working professionals needed different pathways to successfully complete their degree requirements, the school has responded with enhanced choices while retaining high-quality delivery. The school is launching an online degree in January 2019 to better serve the state, making a Carlson M.B.A. accessible to those beyond the immediate Twin Cities region.

• The Master of Accountancy Program has a winter tax and public accounting internship option to provide students without prior experience in these fields a “laboratory” in which to apply their newly learned skills. These ten-week, full-time paid internships effectively fund a part of students’ tuition cost of the degree. To keep the curriculum on the cutting edge of technology, a new accounting and data analytics component will be offered starting spring 2019. Since 2017, the program is also open to non-accountants and includes additional prerequisites and requirements to bring new admits up to speed in foundational accounting.

• The Master of Human Rights program is an interdisciplinary collaboration between the College of Liberal Arts and the Humphrey School of Public Affairs that prepares students for positions addressing global human rights challenges through research, policy analysis, and advocacy. The program is well-connected with the robust community of human-rights-focused organizations in Minnesota, as well as across the country.

• The Master of Public Affairs program offers academic training for mid-career professionals with ten or more years of experience who wish to advance their skills in public and nonprofit leadership, management, and policy analysis. The program is flexible and efficient for working
professionals with courses offered during the day, evening, weekends, and summer.

- The Master of Tribal Administration and Governance degree on the Duluth campus, developed after two years of consultation with Indian tribes, meets the need for applied training to become tribal employees and executives, using best practices for running a tribal government. Graduates have an understanding of relevant federal laws, federal accounting requirements, and federal-tribal-state relations, as well as training in leadership, ethics, and tribal management skills.

- The College of Continuing and Professional Studies redesigned its postbaccalaureate Addiction Studies certificate program to be a Master of Professional Studies in Addictions Counseling degree that meets the Minnesota state requirements for the Alcohol and Drug Counselor licensure.

- Construction is underway for a new Health Sciences Education Center, which will replace 100,000 square feet of outdated facilities with the modern interprofessional learning and training spaces needed to prepare students to meet the future health needs of Minnesota and beyond. This will include state-of-the-art simulation areas to complement existing facilities; active learning classrooms; and a technology-rich library with virtual reality simulators and data visualization spaces to engage in experiential learning.

- Students in health programs have opportunities to practice their skills to be ready for experiential settings. Most students work in state-of-the-art simulation centers, learning clinical and interprofessional teamwork skills needed for future practice in collaborative environments, including:
  - Bentson Healthy Communities Innovation Center in the School of Nursing includes simulated environments that span the healthcare continuum from hospital to outpatient to community-based care.
  - SimPortal in the Medical School is equipped with the technology and tools needed to train medical trainees in cutting-edge care.
  - Dental simulation in the School of Dentistry allows students to practice the highly technical skills needed for future practice.

  - Veterinary students practice client communication in the Interprofessional Education Resource Center and learn with veterinary models in the College of Veterinary Medicine (CVM) Zone, a pilot facility to support clinical skills development.

- Students from across the Academic Health Center have the opportunity to participate in what is believed to be the world’s first interprofessional escape room. In this innovative simulated environment, teams of students from multiple health professions are “locked” in a room and must solve a series of health-related puzzles to “escape.”

- The School of Public Health implemented a new core curriculum for MPH students, which includes a revised field experience requirement that focuses on the development of essential competencies across various domains of professional skill and knowledge. Contemporary themes addressed within the core curriculum, such as the Flint, Michigan, water crisis, serve as the vehicle to understand various aspect of public health.

- The College of Veterinary Medicine has taken steps to promote student wellness, including the Gopher Orientation and Leadership Experience (GOALE), a yearlong class for first-year students to promote self-awareness and stress the principles of professionalism and servant leadership.

- The Academic Health Center has service-learning opportunities for students to learn clinical skills under the guidance of practicing health professionals while supporting the needs of underserved communities. The College of Veterinary Medicine operates the Veterinary Treatment Outreach for Urban Community Health, which provides basic medical care to the pets of underserved residents of the Twin Cities and the Student Initiative for Reservation Veterinary Services, which provides free care on Native American reservations. The Phillips Neighborhood Clinic is a free, student-run clinic where each year 400 students from audiology, dentistry, healthcare administration, law, medical lab science, medicine, nursing, nutrition, occupational therapy, pharmacy, physical therapy, and social work provide free health services to underserved patients in the Twin Cities.
• The Program in Occupational Therapy received Board of Regents approval to transition from a master’s degree to a doctorate degree program. Students will be able to enroll in fall 2019.

• The Medical School continues to expand its opportunities for students to participate in longitudinal experiences within one community or clinical site rather than switching locations every few weeks. This allows the student to engage more fully with teams of professionals in those locations. The focus of these clinical training experiences varies depending on the site but includes rural medicine, urban underserved, interprofessional team work, and quality improvement.

• The Medical Lab Science Program had a 100 percent first-time national certification exam pass rate and 100 percent employment in the field by six months after graduation in 2017.

• All Doctor of Nursing Practice students complete a comprehensive, system-based quality improvement project as a degree requirement. The students engage with healthcare and community organizations in Minnesota and beyond to develop, implement, and evaluate evidence-based solutions to address real quality and safety issues.

The Law School offers one of the most rigorous and comprehensive legal education programs in the country. Almost all J.D. candidates graduate in three years, except for those earning joint degrees in other University programs. The Law School is at the forefront of a small group of schools leading the transformation of legal education nationally and internationally. Recent changes to the curriculum are designed to integrate doctrine, theory, professional values, and lawyering skills to ensure that students graduate with the tools necessary to be effective advocates and counselors in both private practice and public service. Recently launched initiatives include:

• A new required Legislation/Regulation course introduces students to the tools of statutory interpretation, the operation of administrative agencies, and judicial review of agency decision-making.

• Early implementation of the American Bar Association’s experiential learning requirement, including a required first-year course, more than a dozen simulation-based courses that enroll students in small sections that facilitate intensive training and feedback, and one of the largest live client clinics in the United States that offers more than 200 students the opportunity to represent clients in approximately 400 matters each year.

• Two new concentrations (Immigration Law and Family Law), bringing the total number to eleven.

• The Minnesota Law Public Interest Residency Program expands career opportunities by connecting leading public interest and government organizations with law students interested in public service. Students receive real-world experience as externs while earning credit and are guaranteed a full-time legal position with their host organization the year following graduation.

• New courses designed to ensure that the curriculum adapts to the changing legal landscape, including: Data Compliance Practicum, Intellectual Property and Entrepreneurship Clinic, and Military Law and Advocacy.

The University’s professional education programs have strong reputations nationally and around the world, which allows graduates of these programs to engage in their chosen professions with a high level of credibility and public confidence. For example, the Humphrey School is ranked in the top ten among the country’s 270 public affairs schools, according to national rankings released by U.S. News & World Report in 2018 and 2016. Humphrey’s ranking is a significant rise from its previous 2012 ranking of 16th. The school’s nonprofit management program is rated second and its global policy specialization is ranked tenth. The health professional schools have national prominence through a variety of rankings. For example, the Medical School is ranked 33rd in National Institutes of Health funding (2017, Blue Ridge Institute for Medical Research) and is rated 25th in the world on the Academic Ranking of World Universities (Progress Card Measure). U.S. News & World Report also ranks a number of health professions programs highly:

• The School of Nursing is ranked second in nursing informatics education and is in the top ten percent of Doctor of Nursing Practice programs in the country.
• The College of Veterinary Medicine ranks ninth.
• The College of Pharmacy is ranked second among all pharmacy schools in the nation.
• The Medical School is ranked 12th in primary care and 46th in research. The University’s medical school produces more family physicians than any other school in the country.
• The Physical Therapy program ranked 20th of 217 health graduate programs nationally.
• The Program in Occupational Therapy is ranked 37th of 164 schools.
• The School of Public Health is ranked eighth with its Master’s of Healthcare Administration ranked third, its online Master of Public Health degree ranked fifth, and its Biostatistics ranked seventh.

Preparing Graduates to Succeed and Serve the State

The University strives to prepare its professional education graduates to serve their professions and the public. In fact, the University is the state’s primary source for many professional industries. For example, the University granted 230 legal-related degrees (LL.M. and J.D.), 263 Master of Education teaching degrees, and 464 M.B.A. degrees in 2017–2018 (Table 4-12). The University seeks to ensure that these students obtain the experiences they need and graduate in a timely fashion. For example, graduation rates in the health professional programs are very high, with the five-year graduation rates for 2012 matriculating classes across most of the health programs exceeding 90 percent (Figure 4-V).

The following highlights how selected professional programs prepare graduates to succeed while serving their respective professions and communities.

College of Design

Students in the Master of Landscape Architecture program serve as Research Assistants in Practice working directly with nonprofit organizations, government agencies, or firms, which sets the RAs in Practice apart from conventional research assistantships. Although the details of each assistantship differ in the type of work depending upon the agency, RAs in Practice can expect to conduct research on administrative frameworks, emerging policy, societal needs, and process trends; participate in interdisciplinary professional collaborations on multifunctional landscape efforts; and perform basic day-to-day project work in the support of the firm/agency. Further, architecture’s Master of Science in Research Practice program has built relationships with design-related faculty from historically black colleges and universities to help identify and recruit top talent to the program.

College of Education and Human Development

The College of Education and Human Development (CEHD) embraces a dual approach of increasing access to teacher education while supplying and

Figure 4-V. Five-year graduation rates of health education programs, students matriculating in 2013

Source: Office of Institutional Research, University of Minnesota
<table>
<thead>
<tr>
<th>Program</th>
<th>Campus</th>
<th>Enrollment Fall 2018</th>
<th>Degrees Awarded 2017–18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accountancy (M.Acc.)</td>
<td>Twin Cities</td>
<td>57</td>
<td>49</td>
</tr>
<tr>
<td>Architecture (M. Arch.)</td>
<td>Twin Cities</td>
<td>93</td>
<td>32</td>
</tr>
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<td>Business Administration (M.B.A.)</td>
<td>Twin Cities, Duluth</td>
<td>1099</td>
<td>464</td>
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<td>Business Analytics (M.S.)</td>
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<td>134</td>
<td>99</td>
</tr>
<tr>
<td>Business Taxation (M.B.T.)</td>
<td>Twin Cities</td>
<td>77</td>
<td>22</td>
</tr>
<tr>
<td>Community Health Promotion (M.P.H)</td>
<td>Twin Cities</td>
<td>64</td>
<td>29</td>
</tr>
<tr>
<td>Curriculum and Instruction (M.Ed.)</td>
<td>Twin Cities</td>
<td>62</td>
<td>24</td>
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<tr>
<td>Dentistry (D.D.S.)</td>
<td>Twin Cities</td>
<td>468</td>
<td>114</td>
</tr>
<tr>
<td>Doctor of Nursing Practice (D.N.P.)</td>
<td>Twin Cities</td>
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<td>109</td>
</tr>
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<td>Early Childhood Education (M.Ed.)</td>
<td>Twin Cities</td>
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<td>20</td>
</tr>
<tr>
<td>Epidemiology (M.P.H.)</td>
<td>Twin Cities</td>
<td>84</td>
<td>43</td>
</tr>
<tr>
<td>Financial Mathematics (M.F.M.)</td>
<td>Twin Cities</td>
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<td>38</td>
</tr>
<tr>
<td>Health Care Administration (M.H.A.)</td>
<td>Twin Cities</td>
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<td>87</td>
</tr>
<tr>
<td>Human Resources and Industrial Relations (M.A.)</td>
<td>Twin Cities</td>
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<td>83</td>
</tr>
<tr>
<td>Integrated Behavioral Health (M.P.S.)</td>
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<td>28</td>
</tr>
<tr>
<td>Law (J.D.)</td>
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<td>194</td>
</tr>
<tr>
<td>Law (L.L.M.)</td>
<td>Twin Cities</td>
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<td>36</td>
</tr>
<tr>
<td>Master of Nursing (M.N.)</td>
<td>Twin Cities</td>
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Source: Office of Institutional Research, University of Minnesota
diversifying Minnesota’s educator workforce. For example, in 2015 CEHD created a Multiple Pathways to Teaching initiative as a response to predicted teacher shortages across the state. This innovative unit is committed to both diversifying the teaching profession and creating new pathways for students to successfully acquire their teaching licensure. The goal for the initiative is to widen the pipeline of non-traditional students, with the premise that a greater number of quality teacher candidates from diverse backgrounds will be better equipped to attain licensure if the preparatory program is tailored to the needs of a specific district. CEHD has successfully tailored its curriculum delivery for a variety of district partners, allowing for promising teacher candidates already working in that district to meet licensure requirements without having to leave their employment within their school. With these various initiatives in place, CEHD prepares between 250 and 300 new teachers across 20 licensure areas each year.

One example of this is a grow-your-own partnership called the Minneapolis Residency Program, a partnership with the Minneapolis Public Schools and the Minneapolis Federation of Teachers and Education Service Professionals. The Minneapolis Residency Program is grounded in the idea that one of the most effective ways to prepare new teachers is to recruit them from the communities in which they reside, prepare them in partnership with districts, and ensure that they secure jobs in the district after being recommended for licensure.

The Dual Language and Immersion Licensure program is another example of addressing the state’s teaching shortages in elementary immersion and dual-language programs. The program’s unique design allows for bilingual applicants to complete their elementary licensure and master’s program as a cohort of teacher candidates. With a tailored curriculum of online and face-to-face coursework concurrent with field-based experience, candidates cultivate a special set of knowledge and skills to prepare them to teach in dual-language and immersion programs.

At the School of Social Work, recruiting a diverse population of students is naturally supported by the various partnerships the school has with local agencies that serve underrepresented communities. Even more than a recruiting piece, these partnerships support retention efforts by getting students to problem solve and engage with real community issues early on in their education. M.S.W. students are regularly apprised of the service needs in the metro area and in greater Minnesota through a monthly seminar titled “Conversations with the Community.” Agency staff talk with students and faculty about all aspects of their unique services: the community in which they’re located; the major issues that are encountered; the training that their staff requires; how the agency is funded; how to refer clients to their services; ways that the agency works collaboratively with other public and voluntary sector agencies; and employment opportunities for M.S.W. social workers.

All M.S.W. students complete supervised training internships at various social service agencies under the direction of licensed M.S.W. social workers, supported by three major training programs: a Title IV-E Child Welfare Training grant, the Kaplan Training Fellowship for social work practice in traumatic brain injury, and an in-school Integrated Behavioral Health training fellowship. In these internships, students are assessed on their capacity to meet core social work practice competencies. Additionally, the School of Social Work offers a social work license review to help students understand the requirements for moving from student status to licensed social worker, thus helping to fill critical social work positions in the state.

The M.S.W. program also responds to workforce and community needs by recognizing the growing demand for social workers in health care, as well as the reality of an aging population. For example, the M.S.W. program has recently created a new specialization in Health, Disability and Aging and has partnered with the Academic Health Center to give M.S.W. students the opportunity to participate in a twelve-hour course segment on Fundamentals of Interprofessional Collaboration and Communication. This provides M.S.W. students with skills to work with interprofessional healthcare teams, with other opportunities available for professionals in publicly mandated services, particularly child welfare.

Carlson School of Management
The Carlson School continues to prepare graduates to succeed while building enduring relations with businesses both large and small within the state of
Minnesota. Carlson students tackle the state’s grand challenges in areas such as food, health, education, and safety by combining the expertise of the Carlson School with that of the community. For example, the Minnesota Cup represents the largest statewide start-up competition in the country, resulting in awards of more than $2 million in seed funding and helping more than 13,000 Minnesota entrepreneurs in its decade-long existence.

The Master of Human Resources and Industrial Relations program features the Carlson International HR Case Competition, where student teams from around the world present solutions to a live business case in the area of international human resource management. The competition gives the students the opportunity to be exposed to some of the top Fortune 500 companies and meet student peers from schools around the world.

All M.B.A. and M.S. programs at the Carlson School actively engage the community to move learning beyond the theoretical and into applied problem solving to enhance learning and mastery. Examples include:

- “Live case” competitions: Students comprehensively engage a common problem, competing to present the most effective solution while engaging companies like Carlson Wagonlit, PwC, McKinsey, and Carlisle Industries.

- Client projects: In the last year, students in the Master of Science in Business Analytics program completed 18 sophisticated analytics projects and M.B.A. Enterprises completed more than 50 projects. The M.S. in Finance launched its project portfolio and M.S.S.C. students completed four projects. All told, more than 75 graduate projects were completed. Several of these projects were featured in local and national media as they took on grand challenges of public importance like homelessness reduction and opioid crisis interventions.

- Entrepreneurial offerings: Multiple offerings enable students to engage in entrepreneurship. The Sands Fellowships allow students to pursue social enterprise, the Start Up course accelerates students’ own concepts, the Medical Industry Leadership Institute runs multiple “Valuation Lab” cohorts per year, exposing students to authentic medical innovations for them to evaluate.

As one of the top graduate tax programs in the nation, the Carlson School Master of Business Taxation Program (M.B.T.) brings together world-class faculty boasting a wealth of industry experience and a thriving local business community to create a career-shaping experience for students. Evening and online courses offer the flexibility to suit students’ schedules. Twenty-four of the top 25 CPA firms in the Twin Cities have M.B.T. graduates and students in the tax department and 22 of the top 25 public companies in the Twin Cities employ M.B.T. graduates and students in their corporate tax departments. To attract tax professionals nationwide, a fully online M.B.T. program has been launched effective fall 2018.

Other Carlson students see equal success upon graduation. Professionals in the Graduate Career Center work hard across all programs to match students and recruiters. For example, the full-time M.B.A. achieved 88 percent placement at 90 days with an all-time-high starting average salary of $110,000. The full-time Master of Science in Business Analytics (M.S.B.A.) is at 98 percent placement with an average salary of $94,500.

**Humphrey School of Public Affairs**

Each year, Humphrey School students engage in semester-long capstone projects with approximately two dozen client organizations. In addition to providing valuable expertise and collaboration to public and nonprofit organizations, these capstones provide important practice-based experiences that ensure that students are prepared for their future careers. Humphrey also engages distinguished adjunct faculty who bring essential insights from practice, support students in building networks, and contextualize theoretical knowledge offered in other courses. An annual course offering, Developing Your Public Service Career, also builds students’ capacity to move from the classroom to careers.

Humphrey maintains these relationships with the community of practice and identifies ongoing workforce needs in a number of ways. For example:

- The annual Government and Nonprofit Career Fair is notable in that it engages potential employers
who can share their needs and interests with students, thereby highlighting new opportunities for work in public affairs, planning, environmental policy, and more.

• The Future Services Institute supports the Equity Works Leadership Institute and Certificate in Human Services Leadership, which build the capacity of the existing human and social services workforce.

• The Center on the Study of Politics and Governance hosts the annual Policy Fellows Program, a public affairs leadership experience for emerging and mid-career professionals. This non-credit cohort program engages about three dozen leaders from government, business, and nonprofit organizations each year in leadership workshops, networking opportunities with prominent public affairs leaders, training in public policymaking and agenda-setting, and team-based projects on key regional policy issues.

• The Master of Urban and Regional Planning program maintains a strong relationship with the American Planning Association (APA) Minnesota chapter, the primary professional association representing practicing planners. Humphrey was awarded a national award in 2017 for engagement with the state chapter, with activities that include a mentor program, professional panels, student service on the APA Minnesota Board, and student engagement in the state’s professional planning conference.

• As a mid-career program, the Master of Public Affairs program meets workforce needs, supporting career advancement and movement into new opportunities to fill gaps across a wide range of public affairs issues and public/private/nonprofit organizations.

Health Professions Education

The School of Public Health emphasizes a multidisciplinary, multidimensional approach to public health. A long and close partnership with the state health department—one of the best in the country—gives students on-the-ground experience and allows faculty to work with colleagues in the field. The school focuses on “engagement” with communities rather than “outreach,” to support the reciprocal relationship and partnerships.

To meet the veterinary needs of the state, the Veterinary Food Animal Scholar Track (VetFAST) program accepts freshman and sophomore students enrolled in the Animal Science program from the Twin Cities campus, Biology students from the Morris campus, and Animal Science students from the Crookston campus. Accepted students have a reserved seat in the class once program requirements are successfully completed and to date, 28 students have been recruited through this program. Additionally, the college is in the process of developing a partnership with South Dakota State University (SDSU) to address a shortage of veterinarians in rural practice. Students will do their first two years at SDSU and then complete their training at the University of Minnesota. Students can also obtain dual DVM/Master’s of Public Health degrees that provide them with employment opportunities in industry, practice, and the Centers for Disease Control and Prevention.

The Medical School contributes to the state’s physician workforce, with over 70 percent of actively practicing physicians going to medical school or completing a graduate medical education program at the University. This includes a broad range of specialties with a major emphasis of training primary care providers to serve in rural and urban underserved areas.

The field of occupational therapy is projected to grow 27 percent by 2024, much faster than the average for all occupations. Providing an important part of treatment for people with various illnesses and disabilities, including Alzheimer’s disease, cerebral palsy, autism, or the loss of a limb, the Occupational Therapy program is addressing this growth with an innovative hybrid-online program that expands its educational programming to a broader community of students. Students learn hands-on skills through a partnership with the University’s Disability Resource Center. Students partner with the RecWell Center to expand health and wellness offerings for all individuals and to provide increased access—such as the new wheelchair basketball program—for students and community members with disabilities.

The Doctorate of Physical Therapy program has increased its focus on development of community-healthcare partnerships to address current and predicted shortages of physical therapists in Minnesota.
The School of Nursing is home to the nation’s first and only specialty in integrative health and healing for Doctor of Nursing Practice students. The students take a holistic approach to health and wellness by learning integrative therapies such as aromatherapy, acupressure, and healing imagery and creating optimal healing environments in healthcare organizations. The school established academic-practice partnerships with three mental health clinics in urban and rural underserved areas in Minnesota. In this innovative program, nurse practitioner students and faculty work with an interprofessional team to provide integrated, team-based care to persons who live with mental illness and complex medical conditions.

Like most allied health programs, medical laboratory science (MLS) is facing a significant shortage in workforce, especially in rural areas across the country. The MLS program continues to build academic affiliations with four-year colleges in Minnesota and Wisconsin providing access to the MLS program and recently implemented a professional master’s degree program for those applicants who already have a bachelor’s degree and are seeking the professional credential and experience in laboratory operations and management.

As the only dental school in the northern tier of states between Wisconsin and the Pacific Northwest, the School of Dentistry is a regional resource for five states and educates 73 percent of Minnesota’s dentists. It started the first dental therapy program in the nation in 2009, and currently educates 68 percent of licensed dental therapists in Minnesota.

Through the Academic Health Center 1Health initiative, students receive education and experience to serve in a healthcare environment being reorganized into collaborative teams. The 1Health initiative is integrating interprofessional education across University health professions schools and programs to meet the challenges of what is called the “quadruple aim”: improving the patient experience of care, improving the health of populations, reducing the per capita cost of care, and improving the well-being of the providers of care.

Legal Professions Education

Law faculty and students are involved in numerous projects designed to serve the public. In many cases faculty and students work side by side, blending the Law School’s education and outreach missions. Hundreds of law students receive academic credit for serving the public while developing professional skills. Examples include 24 legal clinics that allow students to work directly with members of the local community, a judicial externship program that places students in the chambers of state and federal judges, and a field placement program that enables students to work with government offices and legal service providers.

The Robina Institute of Criminal Law and Criminal Justice is working with state and local governments on multiple aspects of criminal justice policy. The Institute is working directly with Massachusetts, New York City, two counties in Texas, and several urban and rural counties in Minnesota to study and improve the probation system; with the Pennsylvania Board of Probation and Parole to study and improve parole practices; and with Massachusetts and Nevada on sentencing guidelines systems. The institute’s executive director recently served on the Minnesota Senate’s Prison Population Control Task Force and is currently serving on a committee formed by the state legislature to consider whether Minnesota should enact an earned compliance program for probation.


The Corporate Institute, which brings students and mentoring attorneys together to help women- and
minority-owned businesses start up or grow, logs more than 8,000 service hours each academic year.

The James H. Binger Center for New Americans continues to engage law students and volunteer attorneys in high-impact public service, winning changes in U.S. immigration laws that have benefited thousands of people. In the last year, center faculty have supervised over 50 students in prominent cases that have expanded protection for refugees and freed asylum seekers from unconstitutional detention. The New Yorker featured the center’s successful litigation that brought national attention to the government’s controversial policy of detaining traumatized refugees.

The Law School Public Service Program encourages students to provide free legal assistance to the local community. Last year, students devoted more than 12,000 hours of their time to numerous organizations, including the Minnesota Assistance Council for Veterans, Legal Services of Northwest Minnesota, and the Minnesota Disability Law Center.

Dozens of faculty members are involved in helping to shape state, federal, and international law through their scholarship, testimony, commentary, public service, membership on boards, and advising work with governmental and private organizations. For example:

Prof. Robert Stein is one of Minnesota’s commissioners on the Uniform Law Commission;

Prof. Kevin Reitz is the American Law Institute’s reporter for revisions to the Model Penal Code;

Prof. Susan Wolf is a principle investigator for an NIH-funded program to establish a legal framework for regulating the human genome;

Prof. William McGeeveran testified before the Minnesota Senate Judiciary Committee on the PRINCE Act;

Prof. June Carbone is involved in efforts to transform domestic and international practices regarding surrogate motherhood, including through testimony before the Minnesota Surrogacy Commission and participation in a project at the University of Hong Kong that is creating a foundation for a UK Law Reform Commission;

Prof. Richard Painter—who was President George W. Bush’s chief ethics lawyer in the White House—has been frequently featured in the national media as an expert on campaign finance reform, banking regulation, and the 2016 presidential election; and

Prof. Francis Shen is leading a new collaboration involving six University researchers and multiple community organizations to develop a Minnesota Model for addressing youth sports concussions.
Research and Discovery

Conducting breakthrough research that moves us forward. Our researchers improve our understanding of the world and how we work and live.
Introduction

As described earlier in this report, the University’s research mission is to generate and preserve knowledge, understanding, and creativity by conducting high-quality research, scholarship, and artistic activities that benefit students, scholars, and communities across the state, the nation, and the world.

With this mission as a guide, the University in 2013 created a five-year research strategic plan with partners across the University system. In 2018, a systemwide strategic planning process reaffirmed the need for systemwide coordination and priorities to advance the research mission. In alignment with the Twin Cities and other campus plans, the systemwide research objective builds upon the University’s many strengths and creates opportunities to bring researchers together through collective inspiration and discovery. The following sections are the primary areas of focus for the systemwide research vision.

Enhancing Research Excellence

The University seeks to enhance research excellence by investing in research infrastructure and faculty and educating students for the challenges and opportunities of tomorrow. As the state’s major research university, the University plays an integral role in Minnesota’s academic research and knowledge creation. As Table 5-1 shows, the University ranks in the top ten among public universities in research spending, with more than $921 million in research expenditures (Progress Card Measures), and because of survey reporting requirements, that figure represents research expenditures for the Twin Cities campus only. If all University campuses were reported together, the total would grow to $948 million. University of Minnesota research contributes an estimated $1.2 billion to the University’s overall $8.6 billion annual economic impact for Minnesota, according to a 2018 report by Tripp-Umbach.

According to the report, the impact of academic research in Minnesota, home to the University and the Mayo Clinic, exceeds the national average for nearly all fields of study. Minnesota ranks third in the nation for the number of publications produced per $1 million spent on research and has the highest number of publications per capita in the Midwest. The University also tracks the influence of these publications, including how often they are cited by other scholars in their own research (Progress Card Measure).

The University medical and health science schools and units accounted for $407.9 million in research awards in fiscal year 2018, accounting for 51 percent of the University’s research portfolio shown in Table 5-1. University biomedical and health researchers focus on the critical health needs of our society including cancer, children’s health, brain sciences, heart disorders, diabetes, infectious disease, and more. In addition, this research fuels centers and institutes that make a difference, such as:

- The Masonic Cancer Center, one of 41 National Cancer Institute comprehensive cancer centers in the U.S., a designation awarded only to institutions that make ongoing, significant advances in cancer research, treatment, and education. The Masonic Cancer Center leads the Minnesota Cancer Clinical Trials Network across the state.

- The Clinical and Translational Science Institute (CTSI) is one of 60 National Institutes of Health (NIH)-supported research institutions working together to improve the way clinical and translational research is conducted nationwide, enhancing its efficiency and quality. In fiscal year 2018, NIH approved another five years of funding for CTSI.

- The University’s Udall Center, one of nine such centers supported by NIH nationally, seeks to define the changes in brain circuitry that underlie the motor dysfunction in Parkinson’s disease and use this information to develop novel deep brain stimulation therapeutic approaches to improve the lives of patients suffering from Parkinson’s disease.

Through breakthrough health science research discoveries, top-notch education and training programs, and leading-edge health care, the University
Research is working to improve the health of people and animals across Minnesota and around the world.

**Institutional Support for Research**

Over the past five years, research advancement funding programs under the Office of the Vice President for Research (OVPR) have provided more than $24.1 million ($33.3 million with matching funds) to researchers.

**Research Infrastructure Investment Program**

The Research Infrastructure Investment Program is one way the University ensures it maintains robust, state-of-the-art equipment to support research and development.

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<th>Rank</th>
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<th>2016 Total $ (Millions)</th>
<th>Public Rank</th>
<th>2017 Total $ (Millions)</th>
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Table 5-1. Top 20 institutions reporting largest research and development expenditures, fiscal years 2016 and 2017

1dollars in millions

2Johns Hopkins University includes Applied Physics Laboratory, with $1,472,103 thousand in total R&D expenditures in FY 2017

Source: National Science Foundation, National Center for Science and Engineering Statistics, Higher Education Research and Development Survey
academic endeavors, even as federal funding for research stagnates nationwide. These improvements to research infrastructure are key to catalyzing research and innovation and support the University’s talented researchers as they explore new ideas, form interdisciplinary partnerships, and make groundbreaking discoveries. In 2018, over $2.5 million was awarded to 19 research projects, reaching 17 departments, units, and centers; eight colleges; and three campuses (Twin Cities, Duluth, and Morris). Supporting colleges or centers provide one-to-one matching funds for each award. Awards support research infrastructure, facilities, and support services over a variety of University research areas including bioprinting, obesity prevention, pharmacology, child development, clinical research, genomics, and more.

Grant-in-Aid
The Grant-in-Aid of Research, Artistry, and Scholarship Program provides grants to support scholarly and artistic activities of faculty and their graduate students to foster excellence. Grant-in-Aid (GIA) projects represent the breadth and depth of University research in all disciplines and fields. While any faculty can apply for GIA funding, it plays an especially important role by providing new professors and emerging researchers with opportunities to pursue research and scholarship that may not yet have received external funding. In the past five years, $13.5 million has been awarded through the GIA program. For every dollar invested, $4.30 in external funding was generated in fiscal years 2012–2016.

Grant Match
Some external funders require an institution to match funds to a specific grant activity. As grant processes become more competitive and federal funds stay relatively flat, the demand for such institutional matching funds continues to increase, resulting in higher levels of required institutional investment. The University works in partnership with colleges throughout the grant proposal process to coordinate the University’s total commitment in matching funds, which averages about $2 million annually.

Minnesota Futures
The Minnesota Futures program supports extraordinary research by nurturing interdisciplinary ideas. In 2018, two grants were awarded for a total of $499,367. They are supported by technology commercialization revenue and they fund research opportunities that cross disciplinary and professional boundaries and support in-depth research that aims to address society’s grand challenges. Since 2008, Minnesota Futures grants have supported research by faculty who go on to win substantial grants and whose innovations reach the market to potentially improve the lives of millions. For every dollar invested, $3.13 in external funding was generated in fiscal years 2011–2015.

The 2018 Minnesota Futures grants went to two projects: Effect of the Microbiome Upon Deer Tick Range Expansion in the Upper Midwest, which will study the environment’s impact on the spread of deer ticks; and Coordinated 3D Marker-Less Pose Estimation and Neural Measurements from Freely Moving Rhesus Macaques, which will seek to improve methods for researching brain activity.

Research Opportunities for Students
An important part of the educational experience at the University is the opportunity for students at all levels on all five campuses to engage with outstanding research faculty, not just in the classroom, but also in research and creative projects. Undergraduate students develop valuable skills through the Undergraduate Research Opportunities Program, and can present their research findings at campus symposia and a national conference dedicated to undergraduate research. Graduate and professional students work alongside faculty in the laboratory, the archives, and the studio, helping to generate new knowledge and creative works. Graduate and professional research roles prepare students to become future faculty as well as leaders in higher education, business, government, and nonprofit organizations around the world.

Advancing Transdisciplinary Partnerships
Transdisciplinary research partnerships involve collaborators from different disciplines and from outside organizations. The research is aimed at solving grand challenges that require multi-disciplinary perspectives, with outcomes that are societally significant and transformative.
Minnesota’s Discovery, Research and InnovaVation Economy (MnDRIVE)

MnDRIVE is a landmark partnership between the University and the state that aligns areas of University strength with the state’s key and emerging industries to produce breakthrough research that addresses the state’s and society’s greatest challenges. In 2013, the State of Minnesota authorized an $18 million recurring annual investment in four research areas: Robotics, Global Food, Environment, and Brain Conditions. In 2017, the state appropriated another $4 million per year for a fifth research area: Cancer Clinical Trials. Cancer is the leading cause of death in Minnesota, and a broadened network will enhance providers’ knowledge, increase patient access to care, and lessen the time it takes to find a cure.

To date, more than 1,070 researchers in more than 100 departments and dozens of colleges across three campuses (Twin Cities, Duluth, and Morris) have been involved in MnDRIVE research.

With these funds and others leveraged, 767 people have been hired to date. These hires include 31 new faculty who, in turn, are responsible for 146 hires, including lab technicians, graduate students, undergraduate researchers, and post-doctoral fellows.

During calendar year 2017 alone, researchers involved in MnDRIVE work disclosed more than 70 inventions for patents or licensing and received more than $44 million in external funding—ten percent of which came from business and industry, including Pepsico, Xcel Energy, Medtronic, and Zoetis, Inc. The newly-funded MnDRIVE Minnesota Cancer Clinical Trials Network has identified 18 sites that will begin offering intervention cancer clinical trials affecting 47 counties across the state.

Increasing Informatics Capabilities

The University established Research Computing to consolidate management of services provided by the Minnesota Supercomputing Institute, the University of Minnesota Informatics Institute, and U-Spatial. These three units offer increasingly customized resources for computer- and data-intensive research to the University research community.

The Minnesota Supercomputing Institute (MSI) is a nexus for leading-edge research in scientific computing, for fostering interdisciplinary research on campus, and for enabling public-private collaborations. With over 850 research groups and over 4,500 users, MSI enables high-impact research across the life, health, and social sciences and the high-performance computing tasks common to the engineering and physical sciences. In addition to acquiring and managing high-end hardware resources, MSI works closely with numerous research groups on campus to develop tools and platforms designed to securely take in, manage, analyze, and share data to foster public-private research collaborations in the agricultural and biomedical sectors.

The University of Minnesota Informatics Institute (UMII) was founded in 2014 to foster and accelerate research across the University system in agriculture, arts, design, engineering, environment, health, humanities, and social sciences through informatics services, competitive grants, and consultation. UMII’s analysts work at the interface of core facilities and researchers to add value to the data through analysis. UMII funding supports undergraduate research through the Undergraduate Research Opportunities Program and provides graduate fellowships for MnDRIVE-related research with a strong informatics component. One recent project aims to improve plant breeding at the intersection of genomic, phenotypic, and environmental informatics.

U-Spatial collaborates with departments and centers across the University to serve a fast-growing need for expertise in Geographic Information Systems (GIS), remote sensing, and spatial computing by providing consulting and training to students, faculty, and staff. Three examples include collaborating with Global Transit Innovations to map transit availability across the globe; developing the data infrastructure for an NSF-funded project looking at sustainable, healthy cities; and providing spatial analysis of wheat rust in Israel for researchers in Plant Pathology.

Grand Challenges Research

The focus on “grand challenges research” is aimed at marshaling the University’s exceptional strengths to address society’s most difficult and pressing problems. This is part of the vision to enhance ambitious transdisciplinary research and expand collaborations for greater impact, as emphasized
in the *Driving Tomorrow* strategic plan. Through the Provost’s Grand Challenges Research Initiative, the University is implementing new strategies to engage interdisciplinary teams of faculty, students, and community partners in collaborative research addressing the most significant problems of Minnesota and the world. An overarching goal is to build new institutional pathways and mechanisms for transdisciplinary research, deepening engagement with communities and leading to innovative solutions. Ongoing support for ambitious, high-impact research also ensures that the University brings to Minnesota the best and most productive researchers and scholars across fields of study.

The University has made internal investments to seed and foster high-potential collaborations in five grand challenges areas of special focus (see the Twin Cities Planning chapter on page 10 for more details). These strategies intersect with a variety of other significant initiatives aligning University strengths with opportunities and needs; the five-year-old MnDRIVE initiative is a prominent example. Work to broaden and deepen interdisciplinary collaboration is further advanced through University-wide centers such as the Institute on the Environment and the Institute for Advanced Study. All collaborations to address grand challenges build on the expertise and strengths of faculty across the campus in both interdisciplinary and disciplinary research, as well as in teaching excellence and in outreach and public engagement.

**Publicly Engaged Research**

Public engagement, in part, is the partnership of university knowledge and resources with those of the public and private sectors to enrich scholarship, research, and creative activity. Through these partnerships, engaged research can address critical societal issues and contribute to the public good. The local knowledge of community partners can be an important complement to the scientific inquiry that University researchers provide to address problems—with a focus on working with the community, rather than doing for the community.

Public engagement also serves as a strategy for enhancing research. By partnering with local, regional, and international community residents, agencies, businesses, governmental agencies, and others, public engagement can leverage research funding, provide new opportunities for faculty, enrich the student educational experience, and enhance the University’s contributions to addressing issues in local and broader societies. Faculty members in departments and centers across the University have developed quality partnerships with external entities that have leveraged research funding and have implemented research that focused on addressing important societal issues. See the following Outreach, Service, and Engagement chapter on page 95 for select examples of community-engaged research.

**Accelerating the Transfer of Knowledge**

**Technology Commercialization**

The University of Minnesota is committed to accelerating the transfer of knowledge by creating opportunities for public-private partnerships that move ideas and innovations out of the University and into the world, where they can do the most good. UMN’s Technology Commercialization office is a key part of the connection between the ideas and innovation created at the University and the companies, capital, and entrepreneurs who can bring them to the marketplace. Technology Commercialization includes several outward-facing functions that contribute to its operations: Technology Licensing, Business Partnerships, and the Venture Center. Each of these groups has contributed to successes in fiscal year 2018, including the following highlights:

- A major effort to increase patent reimbursements led to a 67 percent increase from the previous fiscal year ($1.3 million to $2.2 million). The number of issued patents also increased (147 to 186).
- A record number of MN-IP agreements (86) *(Progress Card Measure)* and an increase in the number of companies who have signed agreements (58).
- The launch of 13 new startup companies, and ending fiscal year 2018 with 27 companies in the startup pipeline.
Technology Licensing
Technology Commercialization staff continued to reinforce the University’s internationally recognized leadership in university technology transfer, which ranked as the sixth best public university technology transfer office in the country, and fourth among all U.S. universities in terms of license deals completed, according to a study by the Milken Institute. The University of Minnesota was also 29th on the most recent list of the Top 100 Worldwide Universities Granted U.S. Patents released by the National Academy of Inventors and the Intellectual Property Owners Association, which noted Minnesota was awarded 75 patents during calendar year 2017, a 70 percent increase over two years. In May 2018, the Technology Commercialization office was named one of five finalists for the 2018 “Tech Transfer Unit of the Year” award from London-based Global University Venturing.

Business Partnerships
The Technology Commercialization office is nationally recognized as a leader in transforming discoveries into innovative solutions by streamlining partnerships between businesses and the University. Its groundbreaking program, Minnesota Innovation Partnerships (MN-IP), is designed to make it easier for industry to work with the University, both in sponsoring research and in licensing technology. MN-IP (Progress Card Measure) has two programs:

- Try and Buy, a low-risk, low-cost means for companies to test University technology, including pre-set, industry-friendly licensing terms, which now includes 163 available technologies.
- MN-IP Create, a program designed and updated in response to industry feedback, which streamlines the process for industry-sponsored research and licensing of resultant intellectual property. The menu of licensing options from which companies can choose includes fixed-fee and exclusive or non-exclusive licensing. Since its inception, MN-IP Create has led to 414 agreements with 233 unique companies, with a value of $75.2 million in research sponsorship.

In fiscal year 2018, staff played a lead role in securing two major sponsored research contracts (Mitsubishi Tanabe Pharma and Toray), have helped to facilitate expedited business access from a range of companies across the state, and have continued to represent the University at conferences and meetings statewide.

In addition to attracting business for licensing and sponsored research, Technology Commercialization staff also managed the successful Economic Development Fellows Consulting Program, which connects regional companies with graduate students, professional students, and postdocs seeking to gain experience in business consulting. In fiscal year 2018, the program completed 18 projects, and since launching in 2016, over 175 students from 55 departments and 40 companies have participated.

Advances in neuroscience have the potential to bring about new and improved treatments for those with debilitating, brain-related health problems. In fiscal year 2018, Technology Commercialization worked to connect University neuroscience researchers and industry leaders to help technologies move beyond the lab and through the regulatory process.

To highlight some of the many licensable University neuroscience innovations, Technology Commercialization invited industry experts and investors from the 17th Annual Design of Medical Device Conference in April 2018 to a Neuroscience Technology Showcase. University researchers discussed their inventions based on different forms of “neuromodulation,” where scientists use high-frequency sound waves or implanted electrodes to affect the activity of certain neural circuits. Neuromodulation interventions have been found to decrease symptoms and improve brain function, potentially with fewer side effects and longer-lasting benefits than existing treatments for diseases such as Parkinson's, Alzheimer’s, and other brain disorders.

Technology Commercialization supported Minnesota’s broader entrepreneurial community as sponsors—along with Boston Scientific, the University’s Earl E. Bakken Medical Devices Center, and Mayo Clinic—of gBETA Medtech, a free medtech company accelerator.

Venture Center
By the end of fiscal year 2018, the University had launched 132 startups, with approximately 77 percent still active, and had developed a strong startup pipeline of technologies with the potential to spin out
into new companies. Since fiscal year 2006, the largest share of University startups has been in software/IT, followed by bio/pharma and medical devices. This well-diversified list reflects the many strengths of the University’s research portfolio, the broad industry experience of Technology Commercialization staff, and the opportunities afforded by Minnesota’s diverse economy. In addition to companies that are spun out, the Venture Center is typically working with 20 to 30 other potential companies in its startup pipeline.

A survey of University startup companies found that since the Venture Center was formed in 2006, these startups have raised over $405 million in outside investment capital. Several University startup companies are also moving to the next stage of startup growth: business transitions, where startup companies scale up, go public, or are acquired. Three University startup companies transitioned ownership in fiscal year 2018: Calyxt, a consumer-centric, food- and agriculture-focused company, became a publicly traded company; Medication Management, a patient-centered medication therapy management service, was acquired by Genoa Healthcare; and Flipgrid, a company based on interactive classroom video technology, was acquired by Microsoft.

Two University startup companies were approved for funding consideration under the Discovery Capital investment program. Launched in 2014 to help University startups overcome the high hurdle of early-stage financing, the program offers seed funding with a requirement that the investment be led and matched by external investors. The program has invested $2.7 million, attracting total matches of $20.2 million.

Two University startup companies participated in gBETA accelerator programs offered by gener8tor, a nationally ranked accelerator: enVerde, which creates synthetic gas from organic waste; and Soundly, which offers a smartphone game designed to reduce snoring through physical therapy. Both companies completed their accelerator programs with a pitch at gener8tor’s final event.

**MN-REACH**

The University is one of only three institutions with a National Institutes of Health Research Evaluation and Commercialization Hub (REACH) grant. When combined with University matching funds, these grants make a total of $6 million available to support coaching, external consulting, and funding to selected teams over three years. MN-REACH provides University-wide commercial expertise and resources to help develop and commercialize diagnostics, therapeutics, preventative medicine, and medical devices. Now in the middle of its third year of operation, the program has provided coaching for more than 75 faculty teams; provided skills development offerings for more than 200 faculty, post-docs, and graduate students; and awarded grants totaling $3.7 million to 41 promising projects addressing 35 unique, unmet clinical needs.

**MIN-Corps**

MIN-Corps is the University’s site for the National Innovation Corps (I-Corps), a National Science Foundation initiative that prepares scientists and engineers to extend their focus beyond the university laboratory, and accelerates the economic and societal benefits of research projects through commercialization. University teams receive micro-grants to fund initial prototyping and customer research as part of an educational program in which innovation teams composed of STEM students, staff, and faculty are paired with industry mentors to conduct customer outreach and develop a sustainable business model. In addition, MIN-Corps delivers commercialization seminars to faculty and students to promote the University’s entrepreneurial culture. About 700 faculty, staff, and students attended one or more MIN-Corps offerings throughout the year.

**Promoting a Culture of Serendipity**

Promoting a culture of serendipity is central to connecting researchers across departments, colleges, and disciplines—and with colleagues and communities outside of the University—to think creatively and cultivate new ideas. Connectors, individuals across and at all levels within the University, play essential roles in bringing together seemingly unrelated disciplines and ideas to foster creativity and innovation. While this work is still ongoing, much of it has been integrated into other programs so it is less visible as a discrete area of focus.
Research Advancement Development Professionals Network

The Research Advancement Development Professionals Network (RADPN) provides professional development, training, peer mentoring, and networking opportunities to research advancement and development professionals at the University of Minnesota. Originally launched as the Connectors Network, RADPN changed its name and refocused in 2018 as a more formal community of practice. In addition to its mission to support research advancement professionals, its activities will build institutional capacity to attract extramural funding, increase operational efficiency and efficacy, reduce administrative burden on the faculty, and ultimately increase institutional competitiveness.

RADPN is open to anyone who works with the University research enterprise and is governed by a seven-person steering committee that is elected annually. The group initially launched with 30 members, though several efforts have been planned to increase membership, including a kick-off meeting in late August and several workshops planned throughout the academic year.

One of RADPN’s significant accomplishments to date has been organizing an internal “red team” review of a large, interdisciplinary NIH grant for the College of Education and Human Development. RADPN members helped to coordinate the details of the proposal development among faculty and then organized a team of internal and external reviewers to read a late-stage draft of the proposal and provide feedback before submission to increase the chances of it being funded. A funding decision will not be made until early 2019, but RADPN members feel like the review process was worthwhile and are hoping to replicate it in the future.

For more about research at the University, visit research.umn.edu.
Outreach, Service, and Engagement

Partnering with communities to advance research, share knowledge, and provide students with powerful academic experiences that address society’s most challenging issues.
Introduction

The University’s mission includes the imperative to partner with communities to advance research, share knowledge, and provide students with a real-time, real-life academic experience. This foundational truth has been bolstered by the University’s Ten-Point Plan for Advancing and Institutionalizing Public Engagement, which focuses on what the Association of Public and Land-grant Universities refers to as the “new engagement” agenda. The new engagement—which emphasizes reciprocal engagement—shifts the focus away from traditional, one-directional community outreach and public service efforts to more academically integrated activities in which a university’s research, teaching, and learning efforts address societal issues through mutually beneficial campus-community partnerships. Reciprocal public engagement is one of the four interrelated goals articulated in the Twin Cities campus strategic plan, which supports the vision of the University as preeminent in solving the grand challenges of a diverse and changing world. Although initially anchored in the Twin Cities campus plan, this vision—which supports dynamic University-community partnerships to advance discovery, create pathways for students, and benefit the state of Minnesota and the world—is consistent with the goals and strengths of all five campuses and their various colleges.

To this end, three of the campuses developed strategic action plans to further the integration of community engagement in research, teaching, and outreach agendas.

On the Twin Cities campus, a 38-member work group, including faculty, students, and staff, recalibrated the campus’s 2008 public engagement plan and developed a new set of action steps composed of nine core values that further the institutionalization of reciprocal public engagement over the next five years. This plan addresses key policy, infrastructure, and culture issues that are essential for deepening institution-wide commitment to reciprocal public engagement.

At the Rochester campus, a group developed a campus-wide public engagement action plan with the specific goals of deepening and expanding service-learning and community-based research opportunities for students, and developing systems and processes to increase awareness of how the campus is engaged in the community.

The Morris campus’s public engagement action plan comprises five goals: 1) strengthening current initiatives by streamlining the work of the campus’s three outreach units; 2) determining faculty, staff, student, and community investment in current initiatives, as well as community needs and interests that will lead to new initiatives; 3) ensuring that community engagement initiatives are truly inclusive of all those in the campus’s diverse student body, university, and broader community; 4) aligning the campus’s engagement-related institutional practices and assessment efforts with campus-wide student learning outcomes; and 5) more intentionally assessing the effects of the campus’s engagement and outreach work and adopting best practices in the community development and community-based learning fields.

Public engagement teams on the Crookston and Duluth campuses are in the early stages of developing their action plans for the new engagement. Learn more at engagement.umn.edu/news-and-events/university-minnesota-public-engagement-action-plans.

Nationally Recognized as an Engaged University

During the 2017–2018 academic year, the University of Minnesota was recognized with several prestigious awards that recognize and acknowledge the University for facilitating a robust “new engagement” agenda that has created significant impact for students, faculty, staff, and community.

The Clinical and Translational Science Institute (CTSI) received $42.6 million in renewed National Institutes of Health funding for health-related research through the Clinical and Translational Science Award program. As part of the renewed funding, CTSI will build on current efforts to engage communities and stakeholders to improve the process of translation and delivery of health care across the lifespan and to a diverse population.

The Association of Public and Land-grant Universities recognized the University’s Institute on the Environment with an exemplary designation of teaching and learning to deepen and expand service-learning and community-based research opportunities for students, and developing systems and processes to increase awareness of how the campus is engaged in the community.
for the 2017 W. K. Kellogg Foundation Community Engagement Scholarship Awards and the C. Peter Magrath Community Engagement Scholarship Award. The award recognizes programs that demonstrate how colleges and universities have redesigned their learning, discovery, and engagement missions to become even more involved with their communities.

The Community-University Health Care Center (CUHCC) was chosen as one of five centers nationally to receive the 2017 Helping Build Healthy Communities award. CUHCC was the only federally qualified health center in Minnesota to receive the award. The award includes support from the National Association of Community Health Centers, which will provide two years of funding to enhance CUHCC’s medication therapy management services and will help build a curriculum for University of Minnesota faculty, staff, students, and community members.

The Center for Urban and Regional Affairs (CURA) received the National Neighborhood Indicators Partnership’s inaugural G. Thomas Kinglsey Impact Award. This award recognizes programs that use data-driven research to effect policy change and development in the communities they serve. Working with the East Side Neighborhood Development Company in St. Paul, CURA assembled data for the first time on capital allocations by neighborhood. Their analysis brought greater transparency to city spending, prompted policy reforms in selecting capital projects, and motivated improved data collection for easier tracking of spatial patterns in the future.

The Andrew W. Mellon Foundation awarded $350,000 to the Heritage Studies and Public History graduate program. The grant will provide support for students and their collaborative work with community partners.

The Center for Small Towns (CST) was awarded an operating grant of $70,000 from the Otto Bremer Trust. The award will help further CST’s work connecting rural communities with the University and to expand work in new areas. In addition, the grant will allow CST to collaborate more deeply with the programs carried out by the Morris campus’s Office of Community Engagement and Sustainability.

The University remains an active member of and plays a leadership role in national and international peer networks devoted to strengthening and leading higher education’s “new engagement” agenda. These include: Campus Compact, Imagining America, Council of Engagement and Outreach of the Association of Public and Land-grant Universities, Big Ten Academic Alliance Engagement Council, Community-Campus Partnerships for Health, National Academy for Community Engagement Scholarship, International Association for Research on Service-Learning and Community Engagement, Coalition for Urban and Metropolitan Universities, National Review Board for the Scholarship of Engagement, and the Engagement Scholarship Consortium.

Commitment to public service is one of the cornerstones of the University’s mission as a public land-grant institution. Like teaching and research, public service is embedded in the many diverse functions of the institution, from medical clinics and service-learning classes to extension research and education centers throughout the state. Although no one metric can capture the quality or impact of the University’s public service activities, expenditures on public service activities (Progress Card Measure) are an indication of its commitment, similar to expenditures on research activities. The University expects to maintain or increase its level of public service expenditures.

Elevating the Visibility and Centrality of Outreach and Public Engagement

Several strategic initiatives were advanced to strengthen and deepen the integration of local, regional, national, and international public engagement into faculty research and academic curricula, as well as undergraduate and graduate student learning. These initiatives included engagement recognitions, policy developments, and actions that promote the principles of high-quality, reciprocal University-community engagement. Three of the many examples from the 2017–2018 academic year include:

- The Public Engagement Council, the University’s systemwide deliberative body charged with addressing critical and complex issues concerning public engagement, advanced twelve policy issues including setting standards for community-engaged scholarship that can guide department- and college-level promotion and tenure review committees in assessing the quality and scholarly
value of faculty members’ community-engaged research, teaching, and public engagement; and streamlining various transactional processes for community partners who collaborate with the University.

- Faculty, staff, students, and community partners showcased the University’s most innovative engagement practices through more than 80 presentations at the systemwide conference “Advancing Publicly-Engaged Research, Teaching, and Learning to Address Society’s Grand Challenges.” More than 300 individuals from the University community attended this day-long conference.

- A set of engagement zones have been identified to provide targeted outreach efforts to particular neighborhoods surrounding the Twin Cities campus. Coordinators of this place-based initiative hosted a series of meetings between University faculty and community leaders to explore partnership opportunities to catalyze mutually beneficial research, courses, and other projects.

Deepening the Culture of Outreach-focused Research

The University is meeting the “broader impacts,” external partnerships, and community-engaged research requirements of funding agencies. The National Institutes of Health and the National Science Foundation are two agencies among others that are increasingly requiring that university-led research projects include external partners as research collaborators and that the expected societal impact of the research is fully explicated or demonstrated. In 2014, the Office for Public Engagement and Office of the Vice President for Research instituted a metric that captures the extent to which University research is outreach- and community-engaged focused. The metric identifies the external stakeholder sector (healthcare agency, for-profit business, government agency, etc.) and the role(s) the external stakeholders play (e.g., co-investigator, research site, etc.). Over the last three years, more than $400 million in extramural research funds have been garnered for community-partnered research efforts (Table 6-1). During fiscal year 2018, 425 funding proposals from across the system indicated an activity with the community or other outside entity, with the requested amount totaling more than $270 million. Of these publicly engaged sponsored proposals, 36 percent are expected to be awarded funding totaling nearly $68 million.

Significant progress has been made to enhance the scholarly value of outreach and engagement. Faculty and other scholars who work in units that have community outreach as a primary mission (i.e., Extension, Research and Outreach Centers, etc.) report that their community-engaged scholarship is highly valued and widely supported. However, scholars in units that have research and/or teaching as a primary mission have reported that their outreach-focused, community-engaged scholarship is not widely valued or sufficiently supported by promotion and tenure committees. To address this issue, the Office for Public Engagement and the Vice Provost for Faculty and Academic Affairs formed and launched the Internal Review Committee for Engaged Scholarship. This Twin Cities campus-wide committee, composed of tenured, community-engaged scholars from a variety of academic and professional disciplines, is now available to assist promotion and tenure committees in assessing the quality of community-engaged scholarship. The committee members will conduct a formal review of dossiers of the scholars who voluntarily submit their portfolios to the committee and produce a letter that assesses the quality of engaged scholarship, based on a set of national standards and expectations for high-quality scholarship produced through outreach and community engagement.

The value of community-engaged scholarship across the disciplines was also elevated through the establishment and launch of the systemwide

Table 6-1. Publicly engaged sponsored research, training, and public service, fiscal years 2015–2018

<table>
<thead>
<tr>
<th>Proposals</th>
<th>Number</th>
<th>Total Proposed Budget</th>
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<td>Submitted</td>
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<tr>
<td>Awarded</td>
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<td>$418,263,804</td>
</tr>
</tbody>
</table>

Source: Office for Public Engagement, University of Minnesota

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Community-Engaged Scholar Directory (engagement.umn.edu/engaged-scholar-directory). This searchable directory profiles more than 400 scholars at the University who conduct community-engaged scholarship on a variety of issues and in partnership with various stakeholders. The database is searchable by college and topic of the community issues being addressed.

Expanding Community Outreach Opportunities for Students

Community-engaged learning opportunities are increasingly integrated with students’ academic curricula. Data from the Student Experience at the Research University (SERU) survey reveal that 85 percent of student respondents believe that opportunities to connect academic work with community-based learning experiences are important. During the 2017–2018 academic year, several efforts were made to expand opportunities for students to engage in a broad range of community-engaged learning experiences linked to academic programs, such as internships, service-learning, community-based research, study abroad, clinical practice, and social entrepreneurship. Through the efforts of the systemwide Public Engagement Council, an expansion of community-engaged learning opportunities for undergraduate students on the Twin Cities campus is currently being considered as part of the redesign of liberal education requirements. The explicit inclusion of internships, service-learning, community-based research, and study abroad in fulfillment of liberal education requirements will encourage more students to participate in publicly engaged educational experiences of their choosing.

Some departments and majors require students to complete an outreach or community-engaged learning experience. For example, undergraduate students in the College of Food, Agricultural and Natural Resource Sciences must complete an experiential learning experience, which often includes a community-based learning activity. Rochester students address health issues through a community-based, interdisciplinary service-learning experience situated in the community. Humphrey graduate students complete a community-based master’s thesis that addresses a community-focused policy issue. Second-year medical students complete a community-based service-learning experience to cultivate intercultural competence and professional skills. Dentistry students provide pro-bono dental services to areas across the state that have limited or no access to dental care services.

A systemwide community-engaged learning course attribute was instituted in 2016 to allow instructors to identify courses that include a community-engaged learning component. Instructors can use the attribute, which was developed in response to student interest, to spotlight community-engaged learning pedagogies in course descriptions. The attribute also helps students and academic units identify courses that contain community-engaged learning opportunities. In the past year, the attribute was used to identify 102 academic courses that engaged 7,228 students in service-learning, internships, study abroad, social entrepreneurship, and other community-engaged learning experiences.

Strengthening Community Partnerships and Collaborations

Official mechanisms for gathering community input have been established on the Twin Cities campus. The campus is also improving community connections by expanding avenues for University-community communication and collaboration. The Public Engagement Council established a campus-wide Community Advisory Board composed of representatives from existing community advisory groups housed within engagement-focused units and centers. A representative from this board will serve as a full member of the Public Engagement Council and will give voice to the policy needs of various external stakeholder groups engaged in public engagement activities at the University. In addition, beginning in the 2018–2019 academic year, a member from the University’s Community Oversight Board will serve as a voting member of the Public Engagement Council, allowing for a greater flow of information, data, and policy development between the Community Oversight Board and the Public Engagement Council on issues pertaining to community-partnered research.

Related to accounting and assessment, the Office for Public Engagement launched two online directories to better assist internal and external stakeholders in identifying partners for publicly engaged research,
teaching, and outreach opportunities. In addition to the Community-Engaged Scholars Directory referenced above, the University launched the Community-Campus Liaison Directory, which showcases more than 100 individuals from across the system who serve in a connecting role between various communities and the University. Both directories can be filtered by college/campus and societal issue, such as education, economic development, and rural development.

Addressing Societal Issues through Outreach and Public Engagement

Publicly engaged research, teaching, and outreach initiatives enhance the University’s capacity to produce research of significance, to improve educational experiences of students, and to be a source of knowledge and solutions for communities. With campuses located around the state—in thriving metropolitan areas and in rural regions with agricultural strengths and traditions—the University leverages the strength and location of each campus and the talents and passion of local communities to address a wide range of challenges, examples of which follow.

Advancing Civic Leadership and Development

• Ebooks Minnesota, a free online book sharing service managed by the University of Minnesota Libraries, experienced an 86 percent increase in readership during its second pilot year. Through April, out of 4,000 available ebooks in the collection, Minnesotans of all ages borrowed an ebook a total of 158,868 times. In 2017, Ebooks Minnesota for Schools was launched and in the first five months, a total of 35,695 ebooks were accessed by Minnesota schools.

• The Neighborhood Leadership and Organizing Program, facilitated by the Center for Urban and Regional Affairs, builds the capacity of residents and place-based organizations to successfully take on local concerns by developing the skills of their organizers and leaders through trainings, support, and strategic partnership building. Over the past academic year, 13 trainings were held for 210 attendees.

• The College of Continuing and Professional Studies’ affiliate program, the Osher Lifelong Learning Institute (OLLI), selects 20 University graduate students or postdocs annually to teach courses in their area of expertise to senior citizen members. The majority of these individuals, called OLLI Scholars, are international students who often teach about their home countries, resulting in increased international awareness for senior citizen participants.

Furthering Economic and Community Development

• Duluth’s Center for Economic Development (CED) works to strengthen the viability of the Duluth region as a recognized leader in small business development. CED’s Student to Business Initiative Program is an educational program for UMD students and a technical assistance program for businesses and organizations. Students provide custom-fit market research and tools that might otherwise be out of reach for small to mid-sized businesses. Participating businesses can use this data to make informed strategic growth decisions. During spring 2018, 177 students and 28 businesses participated.

• Extension’s Center for Community Vitality hosted a daylong symposium on Minnesota’s workforce for researchers, scholars, and staff. The symposium connected Extension to research and scholarship that can help address issues related to workforce attraction and retention for the state’s employers and economic development leaders.

• The Department of Design, Housing, and Apparel—in partnership with the Fort Road Federation and the St. Paul Mayor’s Advisory Committee on Aging—developed a questionnaire to obtain resident responses about housing challenges in the West 7th neighborhood of St. Paul. Over 250 responses have been received and analysis is underway. The findings from the research will inform the community’s ten-year plan.

• Since the 2015 passage of the state’s Cottage Food Exemption, which allows Minnesota residents to manufacture and store foods in an unlicensed kitchen, Extension’s Food Safety Team has helped to provide critical training to entrepreneurs. To expand training, an online course was developed in 2017. Combined with twelve in-person courses, the Food Safety Team trained 279 food entrepreneurs.
Improving the Environment and Fostering Sustainability

- Two hundred volunteers participated in Extension’s inaugural Starry Trek. Volunteers were trained to identify Starry stonewort, an invasive algae found in ten Minnesota lakes. Volunteers searched 178 lakes statewide and as a result, identified one new finding which allows the Minnesota Department of Natural Resources to take action quickly.

- The Institute on the Environment, through Acara Impact Entrepreneurship, taught 195 students how to develop interdisciplinary solutions to environmental problems, and funded the launch of eleven of these solutions in Minnesota, Uganda, India, Haiti, Nicaragua, Colombia, Peru, and Finland.

- The Technical Assistance Program (MnTAP) is matching third- and fourth-year college student interns with long-term projects to reduce waste and improve efficiency at local businesses and municipalities. Participating students spend the summer using knowledge of engineering and environmental health to develop real-world conservation strategies that help prevent pollution, reduce energy consumption, and raise profits. During Summer 2017, 17 interns were placed across the state and since the program’s inception in 1985, MnTAP interns have saved sponsoring organizations over $10.5 million.

- Extension’s Regional Sustainable Development Partnerships (RSDP) brought together 345 partners on 122 community-driven sustainability projects across Minnesota working on issues ranging from water quality, to local foods and supply chains, to clean energy and economic development. In addition, RSDP has launched a story map of 124 supported community projects across greater Minnesota. The digital map is searchable by region or sustainability focus area and provides information on each of RSDP’s community-based projects across the state.

- The Natural Capital Project, in partnership with the Minnesota Department of Health, has created a story map called The True Value of Water: Drinking Water Protection in Minnesota. The interactive website aims to build a deeper understanding of the complexity of drinking water issues in Minnesota, drawing on data from state agencies and firsthand accounts from the Minnesota Rural Water Association. In addition, over 200 individuals from federal and state agencies participated in workshops offered by the Natural Capital Project on topics ranging from continental-scale monarch conservation planning, to aquatic species management in Minnesota, to the value of natural capital on golf courses with the U.S. Golf Association.

- Extension’s Natural Resources Team recruits, trains, and supports Minnesotans who volunteer for citizen science projects statewide. In 2017, 1,295 volunteers reported a total of 85,369 service hours to statewide environmental stewardship, with an impact on 1,044,809 acres.

- As a student-led initiative, the Engineers Without Borders chapter develops students as humanitarians, engineers, and leaders. Working primarily on issues of water access, the program is currently partnering with communities in Guatemala and Ethiopia to design and implement water access solutions such as drip irrigation systems and harvesting rainwater.

Ensuring Equity and Diversity

- The Center for Urban and Regional Affairs’ Artist and Neighborhood Partnership Initiative offers technical assistance and small grants to individual artists and community-based, neighborhood-based, and other place-based organizations to increase engagement, power, and influence of community members affected by racial, social, and economic disparities. This year, 13 grants were awarded.

- The Healthy Food, Healthy Lives Institute and the Shakopee Mdewakanton Sioux Community co-hosted the second annual conference on Native American Nutrition in September 2017. The conference brought together tribal officials, researchers, practitioners, and community leaders to discuss the current state of indigenous and academic scientific knowledge about Native nutrition and food science and how the various stakeholders can work together on future projects. The 500 conference participants came from 37 states and four Canadian provinces, as well as
Outreach

Mexico and New Zealand; 60 percent of attendees were Native American, representing dozens of tribes.

- The Immigrant Stories project, coordinated by the Immigration History Research Center, has collected over 300 stories representing more than 50 different communities from recent immigrants and refugees. An expansion plan was developed as part of a $320,000 National Endowment for the Humanities grant, which will engage the center in partnerships to take these efforts to other regions of the country through its innovative story-making.

- The College of Design hosted the Building Bridges to Design Careers workshop and summer camp for underrepresented students of color. The programming offered daily exercises about design, three-dimensional modeling, and digital fabrication and their intersection with math and science for 40 students grades K–12.

- A researcher with the Center for Urban and Regional Affairs represented the University as a panelist for a federal congressional briefing entitled “Children and Families Facing Eviction.” University community-engaged research on urban housing, community economic development, and race and gender data were brought to a conversation that examined cross-sector solutions for instability caused by eviction.

Addressing Food and Agricultural Concerns

- The Healthy Foods, Healthy Lives Institute supported twelve new interdisciplinary teams with $440,000 from the Community-University Partnership Grant Program, the University Faculty Research Program, and the Graduate and Professional Research Grant Program. Team projects ranged from creative approaches to healthy food incentives for North Minneapolis retailers to neuroinflammatory biomarkers in obesity and cognitive decline.

- To help communities better understand the impact of large-scale shrimp aquaculture in southwest Minnesota, the Extension Center for Community Vitality measured the potential economic impact of a shrimp harbor. The calculated economic impact was $48.3 million during construction and $23.7 million during operation. The study convinced the Minnesota legislature to support the aquaculture industry, and the city of Luverne gave 60 acres of land to the project valued at $382,560.

- Through the Center for Agriculture, Food and Natural Resources, Extension held 55 Pesticide Safety Education Recertification Workshops for 1,790 attendees across the state. Based on the workshop evaluations, 95 percent of people indicated they were more likely to read pesticide labels before use—a key behavior in protecting people and the environment and for effective pest management.

- In the past year, 2,342 Master Gardener volunteers provided 145,134 volunteer hours in 79 counties throughout Minnesota. The Master Gardeners installed 14 rain gardens for 26,310 square feet, installed 45 pollinator gardens for 17,886 square feet, were involved with 188 community gardens, donated 43,379 pounds of produce to food banks and pantries, worked with 103 school-based gardens, and assisted with landscaping at 40 Habitat for Humanity homes.

- Farmers participating in marketing groups coordinated by Extension averaged 5 cents per corn bushel more than farming peers and 24 cents more per soybean bushel. This increase has meant a total average increase for participating farmers of nearly $10,000 over their peers.

Improving Health, Medicine, and Well-Being

- All senior-level students in the School of Dentistry are required to spend approximately ten weeks of their training in outreach clinics. The University has 15 outreach clinics; eleven in Minnesota, three in South Dakota, and one in North Dakota. In the last ten years, students have reported producing over $43 million worth of dental services in outreach clinics.

- The College of Veterinary Medicine signed a Memorandum of Agreement with the Global Food-and-mouth Disease Research Alliance (GFRA), a worldwide alliance of research institutions, including the World Animal Health Organization and United Nations Food and Agriculture Organization. The goal of the alliance is to control the disease worldwide, to contribute to the economic and social development of countries
worldwide, and to protect the agricultural sector of developed economies. The University is the only higher education institution in North America that has been recognized with the highest level of membership with the alliance.

• The 2018 Summer Institute in Adolescent Health—a partnership between the School of Nursing’s Center for Adolescent Health, the Medical School’s Prevention Research Center, the Minnesota Department of Health, and the Minnesota Department of Education—focused on adolescent health and technology use. The institute brought together over 50 researchers and practitioners for three days to explore how professionals and parents can promote the healthy use of technology for teens, creating a balance of both exposure and access.

• The College of Pharmacy, in partnership with Fairview Pharmacy services, was chosen to participate in Community Management of Medication Complexity Innovation Lab, a multisite demonstration that identifies and tests community-based strategies to improve medication safety for people with complex health and social needs.

• The Center for Bioethics hosted its biannual Mini Bioethics Academy series in the fall and spring. Over 50 people participated in the fall series with topics including meaningful work, food justice, and healthcare’s environmental responsibility. In the spring series, which focused on opioids, 100 people attended to learn about the ethical issues of opioid addiction. In the late spring the center also hosted a cross-disciplinary forum on ethics of climate change in which over 50 people from public, private, and nonprofit sectors attended.

Deepening Interdisciplinary Collaborations through Public Engagement

• Juniors and seniors on the Rochester campus participated in the Community Collaboratory (CoLab), through which students take part in a project to improve the quality of life in Southeastern Minnesota and contribute to meaningful partnerships between the Rochester campus and the surrounding community. The campus has developed strong ties with local public, private, and nonprofit organizations, like the Somalia Rebuild Organization, where students tutor Somali youth; Family Services Rochester, where students spend time with elderly community members; and Olmstead County Public Health, where students assist with community health needs assessment and health improvement plans.

• A series of research projects underway since the early 2000s has culminated in a pavement design package that will enable cities, counties, and the state to build more financially effective roadways. More than 50 individuals contributed to these projects and included expertise from the University’s College of Science and Engineering and the College of Food, Agricultural and Natural Resources Sciences, the Minnesota Department of Transportation, the Minnesota Local Road Research Board, and Jackson, Lincoln, and Polk counties. In addition, these projects were supported by private-sector expertise.

• Each year the Center for Integrative Leadership invites a small number of highly accomplished leaders from the private sector, academia, government, and the nonprofit sector to be Executive Leadership Fellows. Fellows bring their expertise to the center and the University and, in turn, benefit from being a part of the University community. Currently there are six fellows representing Friends of the Mississippi River, Minnesota Historical Society, Interfaith Outreach and Community Partners, University of Minnesota, Civic Consulting Minnesota, and Navega Strategies, LLC.

• The Resilient Communities Project partnered with the City of Ramsey on 21 projects on issues ranging from lifecycle housing and economic development to historic preservation and natural resource management. Projects were matched with 20 courses across 16 academic departments, providing more than 275 students with engaged, experiential learning opportunities.

• The Robert J. Jones Urban Research and Outreach-Engagement Center (UROC) has vital partnerships between the University and North Minneapolis to advance learning, improve quality of life, and discover breakthrough solutions to urban-based critical issues. During 2017–2018,
UROC completed 61 research projects, involving over 100 community partners, 77 faculty partners, 115 University staff members, and 349 students. These projects addressed issues pertaining to education and lifelong learning, health and wellness, and economic development and community development. In addition, UROC initiated pilot projects around a North Minneapolis transportation shuttle and a departmental-community engagement model known as Neighborhood U.

- The Center for Urban and Regional Affairs facilitated the Community Geographic Information Systems program, a walk-in technical assistance center providing mapping services, data analysis, and GIS training opportunities to neighborhood groups, community-based organizations, and other nonprofits in the Twin Cities metro area and Greater Minnesota. The program produced 175 maps for 47 different organizations, totaling 65 separate projects.

- The Minnesota Evaluation Studies Institute launched A Field Guide to Ripple Effects Mapping, a new ebook published by University of Minnesota Libraries that focuses on the emerging evaluation technique of Ripple Effects Mapping. This participatory data collection method is designed to capture the impact of complex programs and collaborative processes and has been used to strengthen evaluation of community-university partnerships and other community-engaged programs in higher education.

Addressing Critical Issues for Youth and Education

- Ramp-Up to Readiness continued to partner with middle and high schools to establish school-wide programs designed to help prepare students for postsecondary success. The program, run by the College Readiness Consortium, leads students through a research-based sequence of activities and workshops that prepares them for postsecondary success. Over 125,000 students in 232 schools in ten states (Minnesota, Wisconsin, North Dakota, Michigan, Connecticut, Ohio, Oregon, Kansas, Texas, and Utah) are being served by the program.

- Extension’s Center for Youth Development engaged 69,000 students and 11,000 adult volunteers to carry out school-time youth programs across Minnesota, working on issues related to youth leadership/civic engagement, STEM, agriculture, and educational pathways. In addition, the Center partnered with a Somali-American-youth-serving organization to develop and deliver three yearlong youth programs in the Twin Cities, reaching Somali immigrant and refugee youth and families with programming related to STEAM. It also partnered with the White Earth and Upper and Lower Sioux tribal communities and American Indian Magnet School (St. Paul) to offer youth development programming on indigenous culture preservation, natural resources, and youth leadership.

- In the past year, Path to Reading Excellence in School Sites (PRESS)—a framework for data-driven decision-making and interventions in elementary reading—provided professional learning workshops to over 2,000 educators at districts across Minnesota, Wisconsin, Iowa, and California. In addition, nearly 300 educators attended PRESS workshops at the University to learn and implement the framework.

- The inaugural Northern Great Plains Youth Institute was held on the Crookston campus in May. The institute, an official World Food Prize event, is an opportunity for high school students to engage with local leaders and experts on critical global challenges. The student participants presented their research and recommendations on ways to solve key global challenges with statewide experts and took part in several workshops at the University. All participating students were recognized as Borlaug Scholars, making them eligible for scholarships to attend the University of Minnesota Crookston.

- The Institute for Global Studies offered twelve workshops and two two-week institutes for K–12 educators, providing professional development on global topics to 216 teachers. In addition, a partnership with Boston University’s African Studies Center resulted in the University of Minnesota traveling with twelve teachers from across the United States to Madagascar to write curriculum related to global studies.
Through a partnership between the College of Liberal Arts (CLA) and the Minnesota Historical Society, more than 27,000 K–12 students participated in Minnesota History Day. CLA hosted more than 1,300 students and their parents and provided 65 undergraduate History Day Mentors to more than 700 students in Minneapolis, St. Paul, and surrounding suburbs to assist with History Day projects. In addition, more than 2,000 students toured Wilson Library.

The College of Education and Human Development’s Individual Growth and Development Indicators Lab received a $400,000, two-year grant from the Institute for Education Services to explore, understand, and document Hmong language development in partnership with St. Paul Public Schools. The research will be used by educators to assess Hmong preschool children’s early language and literacy skills. Over the last decade the lab has secured over $5 million in funding for similar projects.

Through their courses, students from the College of Design have been partnering with St. Paul’s Bruce Vento Elementary School to explore what impact the school’s interior learning environment has on students’ well-being. The partnership has led to a University of Minnesota-designed calming room that uses interactive features and minimalistic visual design to relax students.

The College of Education and Human Development’s school partner network convened 53 school partners, five school district-based employees, and 55 University faculty and staff to improve teacher prep and student learning. The event featured a keynote presentation by Minnesota’s 2017 Teacher of the Year and a session on mindfulness in the classroom with teachers from Minneapolis Public Schools.

The school partner network provides a space to improve P–12 student learning and engagement, mentor new teachers, connect initiatives and resources, and engage in joint continuous improvement. The network is part of the Teacher Education Redesign Initiative sponsored by the Archibald Bush Foundation.

Supported by the Department of Gender, Women, and Sexuality Studies, the Minnesota Youth Story Squad, which works with youth to help them tell their stories, trained 13 new undergraduate interns to deliver digital story curriculum to 200 eighth graders in Minneapolis Public Schools. Several of the digital stories that were created were shown at their graduation ceremony at Northrop, which was hosted by the College of Liberal Arts.

Integrated Science Education Outreach (InSciEd Out) is a partnership between the Mayo Clinic and the College of Biological Sciences committed to rebuilding pre-K–12 science education. InSciEd Out trains educators to offer engaging science class activities and curriculum to their students, while helping students envision their future in a STEM-related career. The program hosted its first annual poster session in collaboration with undergraduate students from the Foundations of Biology course. Elementary and middle school students were able to share their research with college students and learn about undergraduate research opportunities.

These selected examples represent only a small portion of what the University addresses through community-partnered research, teaching, and outreach. For a more complete list visit engagement.umn.edu.
Operational Excellence: Faculty and Staff

Employing world-class faculty and staff who are innovative, energetic, and dedicated to the highest standards of excellence.
Introduction

The University of Minnesota’s outstanding faculty and staff are its most valuable asset and the key to achieving its mission of teaching, research, and community outreach. Providing world-class services for a world-class University depends on recruiting and retaining talent of the highest caliber.

With more than 25,000 employees throughout Minnesota, the University is the state’s fifth-largest employer, generating more than $8.6 billion a year in economic activity to the state of Minnesota—including supporting more than 77,000 jobs and providing more than $470 million in state taxes. Employees account for about 62 percent of the University’s total spending, making them by far the institution’s most important resource. The University is committed to providing its faculty and staff with competitive compensation, benefits, development opportunities, and a supportive work environment to help them achieve the University’s goals. This is reflected in the University’s employee value proposition: “You’re driven to change the world. We’re here to support you.” This year marked the second time since 2015 that Forbes recognized the University as one of America’s Best Employers.

A Highly Engaged Faculty and Staff

Creating a culture in which employees are fully engaged in their work benefits both the organization and the individual employee. University leaders see employee engagement as key to attracting and retaining top talent, while also aligning faculty and staff efforts in support of the University’s mission. A highly engaged workplace fosters collaboration and innovation, removes barriers to employees completing their work, and supports resilience, efficiency, well-being, and high performance.

The University launched a research-based program in 2013 to measure and improve faculty and staff engagement. The program, now in its fifth year, includes an employee engagement survey administered every two years to over 18,000 faculty and staff on all five campuses. The survey measures two drivers of engagement: 1) commitment and dedication, and 2) effective environment. The results of each survey are shared with leaders and managers in every unit and department, and action plans are developed to improve areas of opportunity.

Participation in the Employee Engagement Survey is one of the gold measures on the University’s Progress Card, and the response rate for both staff and faculty continues to grow. In the most recent survey, conducted in 2017, 74 percent of staff and 62 percent of faculty participated for an overall rate of 71 percent, a new high. The Board of Regents established a target of 72 percent overall participation by 2021.

Engagement results from 2017 continue to show very high levels of faculty and staff commitment and dedication that exceed the levels of many top-performing private companies worldwide. In the 2017 survey, 87 percent of staff and 83 percent of faculty agreed with the statement “I feel proud to work for the University of Minnesota.” Employees continue to feel motivated to go beyond their day-to-day job responsibilities. Faculty and staff experience the University as a respectful and empowering environment, according to past survey results.

The survey data isn’t just collected—it is acted on. Every department in the University system receives results specific to their unit, showing how their employees responded to dozens of detailed questions. Managers are encouraged to focus on areas to improve and to share their most effective ideas for increasing engagement. Colleges and units have appointed engagement leads who participate in an ongoing community of practice where they can gather insights and ideas from colleagues across the University.

The University’s engagement program is one of the most robust among higher education institutions in the United States. What makes it unique is the focus on taking action to advance collective priorities based on faculty and staff input, the high level of faculty involvement in advancing engagement, and the direct connection between employee engagement and leadership development efforts. Employee engagement processes and results have been presented nationally and internationally to human resource academics and practitioners from other colleges and universities.
National and International Faculty Recognition

The University actively promotes distinguished faculty as they compete for national and international research and teaching awards. In cooperation with faculty members, previous award winners, and senior leadership, efforts are being made to:

- understand and communicate the nomination procedures for the most prestigious national awards;
- form partnerships with deans and chairs to identify strong candidates, as well as potential nominators;
- identify a broad spectrum of prestigious academic awards and the faculty who have received them;
- analyze career trajectories of faculty members who may be poised for major awards;
- actively support nominators and candidates during the application processes; and
- advocate appropriately on behalf of University nominees.

The research, teaching, and service of University faculty are celebrated through research professorships, institutional teaching awards, and recognition of various types of institutional service. Faculty also continue to garner considerable recognition for their scholarly pursuits (Progress Card Measure).

Since 2012, faculty have been recognized in many major academic award categories, including the Andrew Carnegie Fellowships (two), the American Academy of Arts and Sciences (ten), the American Association for the Advancement of Science fellows (nineteen), Guggenheim Fellowships (nine), the National Academy of Engineering (five), the National Academy of Medicine (two), the National Academy of Public Administration (four), and the National Academy of Sciences (five).

In 2017, Giancarlo Casale (history) received a New Directions Fellowship from the Andrew W. Mellon Foundation. David Tilman (ecology, evolution and behavior) was elected a foreign member of the Royal Society of London. Anand Gopinath (electrical and computer engineering) was awarded the 2017 Microwave Application Award of the IEEE Microwave Theory and Techniques Society. Deborah Swackhamer was awarded the Warren A. Hall medal by the Universities Council on Water Resources. Apostolos Georgopoulos (neuroscience) was awarded the American Legion Distinguished Service Medal, and the National Medal for Museum and Library Service was awarded to the University Libraries.

In 2018, for the third consecutive year, the School of Nursing was recognized with the Health Professions Higher Education Excellence in Diversity Award from INSIGHT Into Diversity Magazine. Shaden Tageldin, associate professor of Cultural Studies and Comparative Literature and director of the African Studies Initiative, was awarded a National Endowment for the Humanities Fellowship for 2019. Robert Vince, director of the Center for Drug Design, was named a fellow of the National Academy of Inventors. John Bryson, public affairs, received the H. George Frederickson Award from the Public Management Research Association. Michael Osterholm, public health, was selected by the U.S. Department of State as one of five 2018 U.S. Science Envoys. Stephen Shuman, dentistry, was named a fellow by the Gerontological Society of America. Associate Professor Casey Hooke was selected as a fellow to the American Academy of Nursing. Mechanical Engineering Professor Uwe Kortshagen was elected as a fellow of the American Physical Society. Kinesiology professor Diane Wiese-Bjornstal was named a fellow by the National Academy of Kinesiology.

An Emphasis on Diversity and Inclusion

The University has made a strong commitment to building a workforce that reflects the diversity of our community. Increasing diversity is a top priority of the University, and one explicitly outlined in the Twin Cities campus strategic plan. In 2018, the University was named by Forbes as one of America’s Best Employers for Diversity. More than 50 “Campus Climate” initiatives and projects across the University and in individual colleges and departments are devoted to promoting diversity, understanding, and inclusiveness on all campuses. Selected programs include:

- **Interdepartmental collaboration**: The University’s Office for Equity and Diversity
Faculty & Staff

(OED), the Office of Human Resources (OHR), and the Office of the Executive Vice President and Provost have been working to expand efforts to attract diverse candidates to the faculty and staff.

- **Increasing diversity of hiring pools:** OED and OHR are working closely with units and colleges to boost the diversity of hiring pools, especially for student-facing positions. OHR and OED are also leading a pilot program with University Services and the Office of Information Technology to diversify applicant pools for entry-level, mid-level, and leadership positions.

- **Implicit bias training for faculty and staff involved in hiring decisions:** The Implicit Bias Education Program is jointly sponsored by the Office for Equity and Diversity, the Office of the Executive Vice President and Provost, the Graduate School, the Office of Human Resources, and the Office of Admissions. 2017–2018 trainings include “Identifying & Challenging Implicit Bias” workshops for faculty involved in search committees and making graduate program admission decisions.

- **Diversity Community of Practice:** This grassroots community of faculty and staff from collegiate units across the Twin Cities campus meets monthly to create innovative strategies for meeting equity and diversity goals on the Twin Cities campus.

- **Institute for Diversity, Equity, and Advocacy (IDEA):** IDEA is an intercollegiate effort to recruit and retain faculty of color on the Twin Cities campus by building scholarly collaborations, mentoring, and personal and professional connections across disciplines.

- **Support of diverse groups on campus:** OED and OHR financially support staff and faculty cultural affinity groups, such as the Black Faculty & Staff Association, Latino/a Faculty & Staff Association, University Women of Color, and Pride at Work. The affinity groups help in networking and recruiting job candidates and in retaining top talent at the University.

- **Diversity recruiters:** OHR has hired six talent acquisition professionals who help to identify and recruit diverse candidates.

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Leadership Training for Faculty and Staff

The Leadership and Talent Development (LTD) department in the Office of Human Resources delivers systemwide programs based on research and best practices that are tailored to meet the needs of University faculty, staff, and human resource professionals. LTD programs increase leadership capacity and skills critical to lead at the University and to meet University, college, and departmental goals.

In the 2017–2018 fiscal year, LTD’s leadership courses drew more than 2,000 participants. Programs include:

- “Leading on All Levels,” an in-person cohort program for individual contributors.
- “Leadership Essentials,” an intensive four-day course for supervisors to strengthen core leadership skills.
- “Supervisory Development Course,” a flexible online and on-demand course for supervisors across the University that covers areas such as “Feedback and Coaching,” “Managing Conflict,” and “Leading Teams.”

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Faculty and Academic Leadership Development

Professional development opportunities and support for faculty throughout their careers are essential to fostering a workforce that is engaged, connected, thriving, and achieving. To that end, the University provides a number of programs and initiatives designed to ensure faculty and instructional staff have opportunities to learn, grow, and advance.

The **Center for Educational Innovation** is a systemwide center that supports effective delivery of instruction across the spectrum from face-to-face to massively online (MOOCs) at all levels of instruction offered at the University. The Center has three high-level goals: 1) a coordinated service model to ensure that instructional support resources support institutional priorities; 2) alignment of academic technology investments and academic priorities; and 3) clarification of the University’s strategy for curricular innovation. Center staff work with faculty and academic units to advance curricular innovation through centrally and locally funded initiatives,
workshops, and consultations with faculty.

Academic chairs and heads—department executive officers—also play a critical role in establishing and nurturing a productive working environment for their faculty and staff. The University offers a comprehensive, full-year **Provost's Leadership Program for Academic Chairs and Heads**, specifically targeting new chairs and heads and focused on mentoring faculty and staff, handling student issues, and addressing diversity and faculty life-course issues. “Talking Heads” is a leadership development initiative for department executive officers in which chairs and heads meet regularly to share best practices and learn about key leadership challenges across the University.

The University also holds workshops for chairs and heads on a wide variety of topics, including promotion and tenure, post-tenure review, annual reviews of faculty, and climate and sexual misconduct to ensure that these leaders are knowledgeable about policies and procedures.

In addition, the University has greatly expanded its participation in the **Big Ten Academic Leadership Program**, sponsored by the Big Ten Academic Alliance. University faculty participants in this program meet with a wide range of University leaders to discuss paths to leadership, roles of administrative offices, and decision-making. These meetings supplement three weekend seminars. The **Women’s Faculty Cabinet** provides leadership to improve and enrich the academic and professional environments for women faculty on the Twin Cities campus. The cabinet recommends and responds to University policies affecting women faculty and promotes the University’s efforts in recruiting, mentoring, and retaining women faculty.

**An Employer of Choice**

The University is committed to attracting and retaining talented faculty and staff with competitive salaries and benefits, challenging and rewarding work, clear paths for advancement, a comprehensive compensation package, and a strong emphasis on health and wellbeing. The University strives to maintain a compensation package that is competitive with peers and labor markets, as directed by the Board of Regents. At the same time, compensation must be balanced with the University’s overall need for cost containment and efficiency. The portion of the University’s total budget spent on compensation has remained relatively stable (roughly 61 to 62 percent) since 2009.

**Comprehensive, Affordable, and Competitive Health Benefits**

The University’s self-insured health program, UPlan, provides a full complement of medical and dental benefits to more than 19,000 enrolled employees and more than 39,000 total members, including family members.

The University aggressively manages its health benefits costs by focusing on value: cost-effective care that is responsive, comprehensive, error-free, and high-quality. Heath benefits management strategies include:

- self-insuring with UPlan;
- negotiating with vendors for cost savings and establishing performance guarantees;
- managing pharmacy costs through increased generic-drug usage;
- guiding members to the most efficient and effective networks, such as Accountable Care Organizations (ACO)—a low-cost, narrow-network plan emphasizing outcomes rather than fees for service; and
- promoting an award-winning Wellbeing Program.

Because the University has effectively managed medical costs, UPlan costs have been significantly below the national health care trend in four out of the last five years, including projected costs through 2018.

**Wellbeing Program**

For more than ten years, the University has offered an extensive Wellbeing Program to increase the health, fitness, emotional, and overall wellbeing of its faculty and staff on all of its campuses. The program has been very well received by employees, and the University continually looks for ways to enhance its offerings. By participating in the University-sponsored Wellbeing
Program, employees can earn points that translate into $500 to $750 in savings on their insurance premiums for the following year. Wellbeing programs include health assessments, fitness, health coaching, and programs to encourage healthy habits, manage weight, live with chronic illness, and reduce stress.

In the most recent program year, which ended in 2017, the Wellbeing Program achieved these performance milestones:

- 65 percent of University employees took part in the program; 41 percent finished.
- 41 percent of participants increased their activities over the previous year.
- 92 percent were satisfied with their health coaches.
- Employees who participated in phone health coaching saw their health risks shrink by 10.3 percent in the last program year—almost four times the rate of those who didn’t have a coach.

The University Wellbeing Program outperforms other universities and large employers. Benchmark research conducted by the Health Enhancement Research Organization gave the University a score of 157 compared to a score of 109 for other universities and 105 on average for companies with more than 5,000 employees. The criteria for scoring included strategic planning, organizational support, programs, participation strategies, and evaluation.

**Community Fund Drive**

University employees believe in giving back to their community. The annual Community Fund Drive, an employee-run campaign to raise funds for local nonprofit organizations, has been a University tradition since 1931. In the 2018 campaign on the Twin Cities campus, employees contributed $1.36 million for local federations and nonprofits. Since 1995, the drive has raised more than $24 million for worthy causes in Minnesota. The University works with seven nonprofit federations representing nearly 500 organizations: the Greater Twin Cities United Way, Community Health Charities of Minnesota, Open Your Heart to the Hungry and Homeless, United Negro College Fund, Minnesota Environmental Fund, Community Shares Minnesota, and the University of Minnesota Foundation. Giving back is itself a component of wellbeing. Research shows the simple act of donating money or volunteering enhances wellbeing and can lead to improved psychological and physical health.
Operational Excellence: Organization

Stewarding an outstanding organization that is responsible with resources, dedicated to measuring and improving performance, and aligned to support the University’s core missions of teaching, research, and outreach.
A Productive, Efficient Organization

The University’s mission is delivered through its people and its space. After people, the construction, operation, and maintenance of the University’s campuses represents the next largest share of University spending. Exceptional faculty and staff are free to do their best work when the campus is safe, the facilities are optimized, and operational efficiencies maximize resources available for direct mission. Stewarding the investments made by generations of students and their families—as well as state lawmakers, citizens, and donors—is a responsibility that University leaders take very seriously.

Finance and Operations Restructuring
In 2016, the University aligned the four major operational units (Finance, Information Technology, Human Resources, and University Services) under a new position of Senior Vice President for Finance and Operations (SVP). As the University’s chief financial officer and chief operating officer, the SVP leads the strategic financial and operational management of the institution. This meets the University’s desire to have an effective, efficient, and fully integrated administrative infrastructure in support of the institution’s academic, research, and outreach missions. Over the past two years, the SVP units have developed into a leadership team that works together to support the mission of the University.

Lower Debt Financing Costs
During fiscal year 2018, the University advance refunded $306.2 million of existing tax-exempt and taxable debt to take advantage of lower interest rates prior to the tax law change effective December 31, 2018. The weighted average interest rate obtained for the tax-exempt refinanced debt was 2.329 percent and for the taxable refinanced debt was 2.648 percent. As a result of the refinancing, the University will save $28.6 million in interest costs over the remaining life of the refinanced bonds.

Additionally, the University obtained approval from the Board of Regents to expand its short-term borrowing capabilities by increasing the current commercial paper (CP) program to a maximum size of $400 million. This allows the University to issue CP Notes as needed to borrow short-term funds for capital projects during the construction period at very low short-term, variable rates that are lower than long-term fixed rates on bonds. The effect will lower overall capital financing costs on capital projects. In addition, a marginal increase in investment earnings during the construction period is anticipated because the University can invest its cash at slightly higher rates than what it pays on the CP issued. The first CP issuances under this program occurred in summer 2018.

Bond Rating
In connection with the September 2017 bond issuance, the University received ratings (Progress Card Measure) from Moody’s Investors Service (Moody’s) and S&P Global Services (S&P), as follows:

• Moody’s—Aa1, with stable outlook
  ◦ The Aa1 rating reflects the University’s excellent strategic positioning reflecting in strong student and research market positions and ample balance sheet reserves. The stable rating outlook reflects continued favorable student demand and research trends, growing tuition revenue, stable to improving operating cash flow and debt service coverage despite additional debt plans.

• S&P—AA, with stable outlook
  ◦ The AA rating reflects their view of the University’s 1) position as Minnesota’s flagship research university and land-grant institution; 2) stable enrollment with rising freshman applicants and matriculants; 3) improved financial performance on an adjusted full-accrual basis; 4) manageable pro forma maximum annual debt service burden; and 5) favorable philanthropic support.
  ◦ The stable outlook reflects their continued view that over the next two years, enrollment and demand trends will remain firm and its financial operating performance on an adjusted full-accrual basis will remain positive and become more robust.
Travel & Employee Expense Reimbursement Processes

The University spends approximately $63.7 million per year on travel related to sponsored research, intercollegiate athletics, study abroad programs, and other non-sponsored activities. Prudent management of travel costs, as well as tracking international travelers for “duty of care,” are key reasons why the University is implementing a new software tool for managing employees’ travel and employee expense reimbursements. The University conducted a pilot of the new system between March and the end of June 2018. Eleven major colleges and administrative units on the Twin Cities and Duluth campuses used the new system and job aids during the pilot, providing feedback on the new processes, tool, and materials. Metrics for the first ten weeks of the pilot included:

- 1,097 individuals accessed the system;
- 2,513 electronic expense reports were created, including 255 by faculty;
- 2,398 electronic expense reports were approved;
- 582 new UTravel credit cards have been issued;
- 61 percent of the overall spend has been through the new UTravel card; and
- 90 percent of expense reports have been created by the person incurring the expense rather than a delegate.

Feedback from the pilot has been used to inform decisions on the final configuration of the system, which is being released to the rest of the University beginning in fall 2018. Processes and tools have been redesigned to enhance efficiency, maximize the traveler experience, and create a scalable model for the entire University. The new system will be fully operational by the end of fiscal year 2019.

Reallocation of Administrative Costs

The University internally reallocates resources to fund investments in higher priorities through its annual budgeting process. As a part of this work, President Kaler announced a goal to reallocate $90 million in administrative expenses over six years beginning in fiscal year 2014 (Progress Card Measure). To make the goal measurable, the University became the first among its peer research universities to track job categories and other operating costs to establish a measurable definition of annual “administrative costs.” As measured through the Cost Benchmarking Analysis, administrative costs consist of the annual combined costs for Leadership and Oversight; and Mission Support (staff and operating costs) and Facilities. From fiscal year 2014 through fiscal year 2018, the University reallocated $79.1 million in administrative expenses (implemented and approved reallocations). To reach the $90 million goal, the University plans to reallocate the final $10.9 million in fiscal year 2019. Because of the University’s work to reduce costs and reinvest those dollars internally, the University has avoided or reduced costs to students and taxpayers. Over the last six years, tuition at the Twin Cities campus for Minnesota residents went up an annual average of just 1.2 percent. For the four campuses in Greater Minnesota, the annual average tuition increase was just 0.4 percent.

Enhanced Tools for Financial Analysis and Monitoring

Over the past several years, the University finance unit has developed several enhanced tools for analysis and monitoring of financial activity.

Cost Benchmarking

The cost benchmarking analysis categorizes total University expenditures each fiscal year into one of four groups: Direct Mission, Student Aid, Mission Support & Facilities, and Leadership and Oversight. This analysis identifies personnel and non-personnel spending in each of these categories at the total University level and at the individual unit level, providing an understanding of how spending changes over time and the different spending profiles of the units. This analysis is also used to define and understand what is driving “administrative costs” (broadly defined as anything in the Mission Support and Facilities and the Leadership and Oversight categories) and to monitor this spending as a percent of the total over time. The management goal is to keep administrative costs down as a percent of the total and to focus new spending as much as possible in the direct mission category (Progress Card Measure).
Cost of Mission

This analysis allocates 100 percent of University expenditures into the mission categories of Instruction, Research, and Public Service (auxiliary and student aid expenditures are identified separately) and then identifies which revenue sources support each of those missions. This is done at the all-University level and the unit level to provide a different perspective on the budget. Secondary or more specific levels of analysis flowing from this include the calculation of what each Twin Cities college or system campus is spending on instruction, what types of costs are driving that level of spending (which are unique to each college or campus), and what revenue sources are available to the different colleges and campuses to support instruction, research, and public service work.

Structural Imbalance Review

This review helps predict and track structural imbalances in unit budgets. As part of the regular budget process, each unit’s balances and annual revenues and expenditures (actual and budgeted) are reviewed in a way that helps identify situations in which recurring revenues are less than recurring expenditures. For units appearing to have such imbalances, staff focus on identifying the unit’s specific budget challenges and solutions.

Enterprise Asset Management

Maintaining and supporting the University’s physical assets (Progress Card Measure) is the second largest cost (after compensation). Good information and workflow management are key to the optimal management of space allocation and utilization, campus planning, capital project management, leases and real estate, maintenance, and custodial work. To meet the continuing challenge of tighter budgets, caring for more complex and aging facilities, and integrating information to support better decision-making, the University is in the implementation phase of an Enterprise Asset Management system. The new system is replacing dozens of unique and disconnected systems to better provide integrated and complete data to support meaningful decision-making about the lifecycle of physical assets (land, space, facilities, and equipment). The system will also provide the platform to manage the physical assets of the University in a way that supports excellence in learning, discovery, and outreach and a positive campus experience for the next ten years.

Continued Diversification of the Twin Cities Energy Portfolio

The University holds a goal of reducing greenhouse gas emissions by 50 percent by 2020 (Progress Card Measure). Progress in recent years has been made through recommissioning facilities, converting to LED lighting, and making long-term contracts with solar community gardens and Renewable Connect subscriptions with Xcel Energy. In the future, onsite solar PV arrays will contribute to the diversification. The Main Energy Plant received final certification and entered service in November 2017. The plant operates 24/7, with a generating capacity of 22.8 mW of electricity and 272,000 pounds of steam per hour for the Twin Cities campus in Minneapolis. This technology makes use of the waste heat from the generation of electrical power, resulting in efficiencies of up to 83 percent of the energy input. This system is more cost-effective (net savings of more than $2 million per year after debt service), reliable (provides redundancy to the existing southeast steam plant and Xcel Energy services), and sustainable (approximate net 12 percent reduction in carbon footprint) than before. Taken together, these initiatives have reduced the demand for traditional retail energy on the Twin Cities campus to just 39 percent.

Advancing Board of Regents’ Housing Goals

The Twin Cities campus undergraduate enrollment strategy calls for growth to between 31,000 and 32,000 students, with 90 percent of first-year students, 25 percent of second-year students, and ten percent of incoming transfer students to be living in University-managed housing. When this plan is realized in 2020, Housing and Residential Life will be prepared to support these goals. The University completed the purchase of Keeler Apartments in March 2018. These 160 beds have been master-leased since 2016, and will now be a permanent part of the housing portfolio. In addition, the renovation of Pioneer Hall and consolidation of Superblock dining facilities remains on track for a fall 2019 opening. Research shows that students who live in University housing
for their first year have higher GPAs and higher four-year graduation rates. When the Pioneer project is complete, Housing and Residential Life will have sufficient, high-quality residence hall capacity for all first-year students who wish to live in University housing.

On the Duluth campus, work is underway on a long-range plan for University housing. This work, when complete, will identify phases for new facilities, strategic renovation, and removal of existing housing that has reached the end of its lifecycle. The plan will also inform timing of housing projects to meet current and expected student demand.

**Advancements in Information Technology**

**Academic Technology**

The transition from the University’s legacy course management system (Moodle) to Canvas, a state-of-the-art platform, continues this year. Canvas gives instructors greater access to licensed, library-provided, open-education resource, and self-created course content and analytics. All of this contributes to the institution’s understanding of how students learn in a digital classroom. The transition to Canvas is part of the University’s membership in the Unizin consortium, a group of universities, including eight Big Ten institutions, that collaborate and share resources to adapt to the ever-changing digital learning landscape and incorporate new education technologies into their existing teaching and learning strategies.

**Two-Factor Authentication**

This year, the University is taking meaningful action to help protect students, faculty, staff, and systems by requiring Duo Security (two-factor authentication) at the University sign-in page.

The requirement, which is being rolled out over the course of twelve months beginning in November 2018, will help protect paychecks, financial aid, sensitive information, and more.

**Network and Cybersecurity Upgrade**

The multi-year upgrade and modernization of the University’s legacy network (which was last upgraded in 2004) and cybersecurity tools continues. The initiative will increase network speed and capacity tenfold, and employ threat-monitoring, log management, denial of service, and firewall technologies.

**Technology Portfolio**

The newly built Technology Portfolio aids information technology professionals and decision makers who are responsible for the adoption or purchase of technologies. The Portfolio offers use guidance, service delivery information, technical details, and more. To date, all technology services provided by the Office of Information Technology have been added to the Portfolio. This year, colleges and support units will add information on the technologies they provide.
APPENDIX A:
KEY DATA SOURCES
AND WEB LINKS

Key Data Sources

- Association of American Universities Data Exchange: aaude.org
- Association of American Universities: www.aau.edu
- Association of Research Libraries: www.arl.org
- Institute of International Education: www.iie.org
- National Center for Education Statistics: nces.ed.gov/ipeds
- National Institutes of Health: www.nih.gov
- National Research Council: www.nationalacademies.org/nrc
- National Science Foundation: www.nsf.gov

University of Minnesota Campuses and Strategic Planning

- Systemwide Strategic Vision: president.umn.edu/strategic-vision/system-wide
- Twin Cities Campus: twin-cities.umn.edu
- Strategic Plan: strategic-planning.umn.edu
- Duluth Campus: d.umn.edu
- Strategic Plan: d.umn.edu/strategic-planning
- Morris Campus: morris.umn.edu
- Strategic Plan: digitalcommons.morris.umn.edu/camp_doc/11
- Crookston Campus: crk.umn.edu
- Strategic Plan: crk.umn.edu/strategic-planning
- Rochester Campus: r.umn.edu

University of Minnesota Administrative and Academic Units

- Academic Health Center: health.umn.edu
- Board of Regents: regents.umn.edu
- Controller’s Office: controller.umn.edu
- Global Programs & Strategy Alliance: global.umn.edu
- Graduate School: grad.umn.edu
- Office for Equity and Diversity: diversity.umn.edu
- Office for Public Engagement: engagement.umn.edu
University of Minnesota Links, Continued

Office for Student Affairs  osa.umn.edu
Office of Budget and Finance  finance.umn.edu
Office of the Executive Vice President and Provost  provost.umn.edu
Office of Institutional Research  oir.umn.edu
Office of the President  president.umn.edu
Office of University Relations  university-relations.umn.edu
Office of Vice President for Research  research.umn.edu
Research and Outreach Centers
    North Central Center at Grand Rapids  ncroc.cfans.umn.edu
    Northwest Center at Crookston  nwroc.umn.edu
    Southern Center at Waseca  sroc.cfans.umn.edu
    Southwest Center at Lamberton  swroc.cfans.umn.edu
    UMore Park at Rosemount  www.umorepark.umn.edu
    Robert J. Jones Urban Research
        and Outreach-Engagement Center  uroc.umn.edu
    West Central Center at Morris  wcroc.cfans.umn.edu
University Libraries  lib.umn.edu
University of Minnesota Alumni Association  umnalumni.org
University of Minnesota Extension  extension.umn.edu
University of Minnesota Foundation  give.umn.edu
APPENDIX B:
BOARD OF REGENTS

Honorable David J. McMillan, Chair
Congressional District 8
Elected in 2011, 2017
Term expires in 2023

Honorable Kendall J. Powell, Vice Chair
At-Large Representative
Elected in 2017
Term expires in 2023

Honorable Thomas J. Anderson
Congressional District 7
Elected in 2015
Term expires in 2021

Honorable Richard B. Beeson
Congressional District 4
Elected in 2009, 2015
Term expires in 2021

Honorable Linda A. Cohen
At-Large Representative
Elected in 2007, 2013
Term expires in 2019

Honorable Michael D. Hsu
Congressional District 6
Elected in 2015
Term expires in 2021

Honorable Dean E. Johnson
At-Large Representative
Elected in 2007, 2013
Term expires in 2019

Honorable Peggy E. Lucas
Congressional District 5
Elected in 2013
Term expires in 2019

Honorable Abdul M. Omari
At-Large Representative
Elected in 2013
Term expires in 2019

Honorable Darrin M. Rosha
Congressional District 3
Elected in 1989, 2015, 2017
Term expires in 2023

Honorable Randy R. Simonson
Congressional District 1
Elected in 2018
Term expires in 2021

Honorable Steven A. Sviggum
Congressional District 2
Elected in 2011, 2017
Term expires in 2023

Brian Steeves
Executive Director and Corporate Secretary
600 McNamara Alumni Center
200 Oak Street S.E.
University of Minnesota
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APPENDIX C: Senior Leadership

Eric W. Kaler President
Karen Hanson Executive Vice President and Provost
Mike Berthelsen Vice President for University Services
Kathryn Brown Vice President for Human Resources
Brian Burnett Senior Vice President for Finance and Operations
Mark Coyle Athletics Director
Michael Goh Vice President for Equity and Diversity
Bernard Gulachek Vice President and Chief Information Officer
Gail Klatt Associate Vice President for Internal Audits
Matt Kramer Vice President for University Relations
Boyd Kumher Chief Compliance Officer
Chris Cramer Vice President for Research
Lisa Lewis President and CEO of the University of Minnesota Alumni Association
Doug Peterson General Counsel
Kathleen Schmidtkofer President and CEO of the University of Minnesota Foundation
Jon Steadland Chief of Staff to the President
Jakub Tolar Dean of Medical School and Vice President for Clinical Affairs

Michelle Behr Chancellor, University of Minnesota Morris
Lendley Black Chancellor, University of Minnesota Duluth
Lori J. Carrell Chancellor, University of Minnesota Rochester
Mary Holz-Clause Chancellor, University of Minnesota Crookston
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Progress Card Measures Definitions

GOLD MEASURES

Measure
4- and 6-year graduation rates, by campus

Definition/Discussion
The percentage of first-time, full-time new entering freshmen that graduated within four or six years. The University counts as a successful completion a student that first enrolls at any U of M campus and graduates from any U of M campus in the given time frame. (For federally reported measures, a student must begin and graduate from the same campus to be counted as a successful completion for that institution.)

The four-year graduation rates reported in 2021 will be based on the 2017 entering cohorts, while the six-year graduation rates in 2021 will be based on the 2015 entering cohorts. The provost on the Twin Cities campus and chancellors on the system campuses were asked to set reasonable stretch goals for their individual campuses given incoming student characteristics, availability of degree programs, and peer comparisons.

Measure
4-year graduation rates of Pell-awarded students (system)

Definition/Discussion
The percentage of first-time, full-time new entering freshmen who received federal Pell grants their first year and graduated within four years.

This is a system-level measure of undergraduates at all campuses. Similar to overall four-year graduation rates, this measure takes an incoming cohort of students receiving Pell grants and examines their graduation levels four years later. Ideally financial need would not be a barrier to graduation, yet we know that Pell eligibility can also correlate with other graduation risk factors such as being a first-generation student.

The ultimate goal for these students would be to bring their graduation rate up to that of the student body as a whole. Although this may be unrealistic in a shorter time frame, the proposed goal grows the graduation rate of Pell-awarded students at twice the rate of the proposed growth rate for the student body overall.

Measure
Twin Cities entering freshman average ACT
**Definition/Discussion**

The composite score on the ACT exam for entering students. The ACT uses a 36-point scale on four multiple-choice testing areas: Math, English, Science, and Reading.

A long-time measure of the academic preparedness of the incoming class, the average ACT score of the freshman class has been rising steadily, from 24.8 in 2003 to 28.4 in 2017. However, given state demographics, natural limits, and the desire to meet multiple goals for the incoming class (including access for students across Minnesota, students of color, and students from diverse socio-economic backgrounds), it is unlikely that the University will see or desire a significant increase in this measure in the near future.

The University has a goal of exceeding an average ACT of 28.0 while continuing to monitor student access to a University education.

**Measure**

Institutional gift aid (system)

**Definition/Discussion**

The total amount of student gift aid provided by the University across all campuses. Gift aid includes Promise scholarships, admissions scholarships, collegiate and department scholarships, athletic scholarships, Regents scholarships, and graduate assistant tuition benefits. This measure does not include state or federal grants, student employment, or loans.

While there is no “correct” level of institutional gift aid, the University has a long-standing commitment to making education as affordable as possible for students, and increasing gift aid through fundraising and institutional resources is an important strategy in meeting that commitment. The goal represents a three-percent annual increase in institutional gift aid through 2021.

**Measure**

R&D expenditures (Twin Cities)

**Definition/Discussion**

The total dollar amount of research and development expenditures defined and collected annually by the National Science Foundation through the Higher Education Research & Development Survey. All institutions expending at least $150,000 on R&D in the fiscal year are surveyed, and the data is comprehensive of all sources of R&D expenditures.

Though this measure includes the many sources of an institution’s R&D funding, the largest source continues to be federally sponsored funding. The federal investment in sponsored research projects has been in decline for several years, only returning to FY2012 levels in FY2017. Despite this, the Office of the Vice President for Research has proposed a goal that would increase R&D expenditures by nearly five percent over the next few years.

**Measure**

Medical School ranking (Twin Cities/Duluth)

**Definition/Discussion**

An annual ranking based on the total dollar amount of grants from the National Institutes of Health to medical schools as analyzed by the Blue Ridge Institute for Medical Research.
Medical school rankings have traditionally been based on National Institutes of Health (NIH) awards to U.S. medical schools in a given year. In 2017, the University of Minnesota's medical school received $143 million in NIH awards and ranked 33rd in the country. In 2017 the University of California – San Francisco Medical Center was the top-ranked school in the country, with $527 million in NIH awards. Minnesota ranked 4th in the Big Ten, behind Michigan (12th), Northwestern (18th), and Wisconsin (24th). The Mayo Clinic in Rochester was 17th in the country in NIH funding in 2017.

Former Senior Vice President and Dean of the Medical School Brooks Jackson stated the desire to return to being a “Top 20” medical school. The 20th-ranked school in 2017, the New York University School of Medicine, had $232 million in NIH awards, so achieving that ranking is an ambitious goal over a relatively short time period.

Measure
Faculty awards (Twin Cities)

Definition/Discussion
The number of prestigious national awards received by faculty in the arts, humanities, sciences, engineering, and health fields and the institutional ranking based on those awards as measured annually by the Center for Measuring University Performance (MUP) at Arizona State University.

The MUP analyzes and ranks research universities in nine different areas, including the number of prestigious national faculty awards. The 24 awards included in their analysis range from the Guggenheim Fellowships, MacArthur Foundation Fellowships, and National Humanities Center Fellowships to the NSF CAREER awards.

This measure can be quite variable from year to year, but the University desires to maintain its place among the top ten public research universities nationally in prestigious faculty awards. The ranking goal requires approximately 25–30 of these faculty awards annually, and the numeric goal of 35 or more faculty with annual awards aligns with the strategic emphasis on faculty excellence.

Measure
Participation in the employee engagement survey (system)

Definition/Discussion
The system-level survey response rate for faculty and staff on the biennial Employee Engagement survey. Though employee engagement is a nebulous concept to attempt to measure at the all-University level, a private-sector standard is to measure participation in such a survey so that local-level units can receive as much rich and comprehensive data as possible. The University measures faculty and staff participation in this survey.

Although employee survey participation is already high compared to other higher education institutions, the University strives to increase participation by two percent with each administration of the survey.

Measure
Operational excellence (system)

Definition/Discussion
The President has set as a goal a minimum of $90M in cost savings over a six-year period (FY14–FY19). The cost savings are identified annually in the budget process and must come from categories not directly related to mission activities of instruction, research, or public service.

The goal for this measure is $90M by FY19.
MAROON MEASURES

Measure
Twin Cities transfer student 3-year graduation rate

Definition/Discussion
The percentage of students who previously attended a postsecondary institution outside the University system and graduated within three years of transferring to the Twin Cities campus.

Though not generally reported on a nationwide basis, the ability to graduate transfer students is an equally important and worthy goal to traditional freshman graduation rates. There is more variability in these cohorts, with some students entering with 30 credits or less, while a few bring in as many as 90 credits. The three-year graduation rate for transfer students would be comparable to the five-year traditional rate, understanding the additional variability among these students. Much like goals for increasing the traditional four- and six-year rates, the University believes it should also increase these graduation rates.

The University has a goal of exceeding a 65 percent graduation rate for transfer students.

Measure
Graduate and professional degrees awarded (Twin Cities/Duluth)

Definition/Discussion
The total number of master’s, doctoral, and professional degrees awarded annually across the University.

The University is the primary generator of graduate and professional degree recipients for the State of Minnesota. The ongoing need for an educated workforce, both throughout the general population but also at the highest levels of education, requires the University to maintain its priorities in this area.

Graduate enrollments have predictably been falling as the economy has improved. However, the University has been opening new programs at the professional master’s level, filling demand for new emerging areas in technology, business intelligence, international law, and other fields. The University will need new programs such as these to maintain current degree completions above 5,250 per year.

Measure
Median undergraduate debt at graduation (system)

Definition/Discussion
The median amount of student debt accumulated by undergraduates with student debt at the time of their graduation.

This measure can be heavily influenced by many factors, only some of which the University controls. Along with tuition and institutional aid policies, other factors that influence student debt include federal and state financial aid policies, program choice and time to degree, and student and parent behaviors and choices. Because this measure is relevant to all students in the University of Minnesota system, we monitor this at the all-University level.

The University proposes a goal of limiting increases in the median amount of cumulative debt for undergraduates with debt to no greater than the consumer price index, with adjustments according to state and federal policy changes. Although a wide variety of factors will influence this measure, it is an important priority for the Board of Regents and administration to continue to monitor.
Measure
Students of color with a favorable sense of belonging on campus (Twin Cities)

Definition/Discussion
Percentage of undergraduate students of color responding “agree” or “strongly agree” to the statement “I feel that I belong at this campus.” Data is collected as part of the Student Experience in the Research University (SERU) survey, administered to all undergraduates on the Twin Cities campus.

The University’s goal is to improve the campus climate and sense of campus belonging for all students. The goal for this measure is to have the students of color favorable sense of belonging response match that of all other students—white, international, and students of unknown race/ethnicity—in the aggregate.

Measure
Percent of new entering (and all currently enrolled undergraduate) students who are Minnesota high school graduates (system)

Definition
Percent of the University’s new entering students and the percent of all enrolled undergraduate students who identified Minnesota as their home location prior to enrollment. The source for this measure is the University’s enrollment statistics. This measure analyzes fall enrollments to help assess access for Minnesota students throughout their academic careers. The percent of Minnesota high school students among both new entering and all undergraduate students throughout the University systemwide has remained consistently high.

The goal for this measure is to maintain the historical access of Minnesota students to the University of Minnesota.

Measure
Percent of recent Minnesota high school graduates choosing a Minnesota college who enroll at the University (system)

Definition
The percent of Minnesota public high school students who graduate in the spring and enroll at a Minnesota postsecondary institution in the fall of that year who choose the University of Minnesota. The source for this measure is the Minnesota Office of Higher Education.

This measure focuses service to Minnesota students to those recent high school graduates who choose to continue their education in Minnesota. The University has traditionally been an attractive choice for Minnesota students seeking a bachelor’s degree and has increased its share of the Minnesota college-bound students who graduate from a Minnesota high school. Approximately one-fifth of Minnesota high school graduates choose a postsecondary institution outside of Minnesota and one-third do not attend a postsecondary institution the following fall after graduation. Those students are not included in this measure.

The goal for this measure is to maintain the historical access of Minnesota high school graduates to the University of Minnesota.

Measure
Enrollment in health science specialties with shortages (Nursing, Pharmacy, Dentistry) (Twin Cities/Duluth/ Rochester)
Definition/Discussion
The annual fall enrollments in health sciences fields identified by the Minnesota Department of Employment and Economic Development’s Labor Market Information Office as leading to Occupations in Demand in Minnesota.

The University has a crucial role in meeting the need for growing the healthcare workforce across the state. In particular, the University recognizes its ability to meet the needs for healthcare professionals in high demand throughout the state, and has prioritized enrollments at all educational levels in the fields of nursing, dentistry, and pharmacy. The University proposes to increase enrollments to greater than 2,100 students in these fields.

Measure
Total enrollment in the AHC schools and Center for Allied Health (Twin Cities/Duluth/Rochester)

Definition/Discussion
The total combined fall enrollments in the Academic Health Center schools of Dentistry, Medicine, Nursing, Pharmacy, Public Health, and Veterinary Medicine, and the Center for Allied Health. This measure includes enrollments on the Twin Cities, Duluth, and Rochester campuses.

In keeping with the goals of the AHC’s strategic plans and recommendations from Governor Dayton’s blue-ribbon commission on the medical school, expanding access to health education across the AHC is a key component in returning to national leadership in healthcare training, research, and care. In addition to the state-level demand for healthcare workers identified in the preceding measure, expanding enrollments across the AHC addresses the growing needs for doctors and other health professionals across a wide variety of in-demand specialties at the state and national levels. The University proposes to increase enrollments to above 6,350 students.

Measure
National public research university ranking (Twin Cities)

Definition/Discussion
The annual ranking by the National Science Foundation of public higher education institutions according to total annual research and development expenditures.

Reported annually by the Vice President for Research, the public research university rankings are compiled from the Higher Education Research & Development Survey completed by all institutions with at least $150,000 in dedicated R&D expenditures in a fiscal year. While the total R&D expenditures metric is our primary measure of research productivity, monitoring the ranking allows the administration and Board to evaluate the relative competitiveness of the University.

The University continues be among the top ten public institutions on this measure and strives to stay at this high level understanding that there will be year-to-year variance.

Measure
Minnesota intellectual property agreements (system)

Definition/Discussion
The total number of intellectual property agreements executed annually through the MN-IP Program.

Over the past few years, the University has prioritized making it easier for businesses to partner with the University to transform discoveries into innovative solutions. MN-IP is designed to improve access to University-developed technology while reducing the risk and cost associated with licensing intellectual property (IP) and
sponsoring research. Programs to help both create and license University IP have been developed, and increasing the number of agreements is an important policy direction.

With limited trend data for this emerging program, it is unclear what the optimal rate for increasing the annual number of MN-IP agreements should be. Currently, the University has a goal of increasing agreements ten percent year-over-year, with updated information provided by the Vice President for Research as it becomes available.

Measure
Public service expenditures (system)

Definition/Discussion
The University’s total annual expenditures on public service. The University records its mission-related expenditures into instruction, research, and public service categories.

There are no agreed-upon comprehensive measures of public service and outreach in higher education, in part because public service and outreach informs much of the work of a land-grant institution. The wide range of activities and expenditures included broadly under public service and outreach makes it difficult to identify a single measure of progress. While exploring and defining a more comprehensive measure, the University proposes to continue to monitor our overall expenditures.

The University has had a staunch commitment to public service and outreach as a core mission function and plans to keep its expenditures above $245 million annually.

Measure
Average citations per faculty member (Twin Cities)

Definition/Discussion
The number of times a recent faculty publication is cited by scholars during a five-year period as measured by Academic Analytics, a data analytics source provider. The total number of citations is averaged across all faculty at the institution and pertains to works published within that same five-year period.

There are several different services for faculty citation counts, none of which are comprehensive. The University discontinued its contract in 2017 with Academic Analytics and is currently studying other data options. The University proposes further discussion of this measure over the coming months.

The specific goal of maintaining an average citation count per faculty above 125 annually may be updated with different data sources, but the goal’s emphasis on faculty scholarship and excellence will continue.

Measure
National scholarship awards to students (system)

Definition/Discussion
The number of prestigious national awards annually received by University undergraduates. The seven leading student awards included in this measure are the Beinecke, Churchill, Truman, Rhodes, Fulbright, Goldwater, and Astronaut awards.

These awards represent a wide variety of fields and expertise and are some of the most prestigious student awards in the world. Any given year can be quite variable in the number of awards our students apply for and receive;
Additionally, many of these leading awards have limitations based on location of the students’ institution or home residence.

As such, the measure examines awards in five-year blocks (2015–2020) of awards, with a goal of exceeding the previous half-decade’s achievement. The Board will also receive annual progress updates on this measure.

**Measure**

**Spending on leadership and oversight vs. mission and mission support (system)**

**Definition/Discussion**

The percentage of University expenditures on leadership and oversight as determined by the University’s internal cost benchmarking study, which has divided all University expenditures into mission, mission-support, and leadership and oversight categories since 2012.

One purpose of this study is to ensure that the University continues to make investments in mission-related activities, while limiting new investment where possible in oversight and overhead. This analysis has shown the ability to contain leadership and administrative costs; however, monitoring levels vs. setting an actual target is probably prudent, as many variables go into this metric.

The University proposes to maintain and continue to try to decrease the percentage of spending on leadership and oversight, understanding that there is a natural floor for this percentage of expenditures.

**Measure**

**University square feet considered in “poor” or “critical” condition (system)**

**Definition/Discussion**

The number of gross square feet of University facilities systemwide rated through the Facilities Condition Assessment as being in “poor” or “critical” condition.

The University has for a number of years completed a comprehensive facility condition assessment (FCA) on many of its buildings. Beginning in 2013 this was extended to all buildings systemwide with an enhanced methodology.

The University proposes a goal of tracking the total number of gross square feet considered either “poor” or “critical” by this methodology and decreasing the total square footage in these categories over time.

**Measure**

**Sustainability – metric tons of greenhouse gasses (system)**

**Definition/Discussion**

The number of metric tons of greenhouse gasses produced annually across the University system.

The Board of Regents policy on Sustainability and Energy Efficiency directs campus operations to reduce emissions to the environment. In addition, the institution has committed to regular greenhouse gas inventories as part of the American College and University Presidents’ Climate Commitment, and the Minnesota State Legislature has also established emission reduction requirements for buildings constructed with state funds.

In 2008, when we first began measuring greenhouse gas emissions, the University set as a goal a 50 percent reduction in emissions by 2021. With changes to the emission calculation methodology in 2016 to more accurately
reflect trend data in purchased electricity and campus steam plants, the base level of 703,311 metric tons yields a 50 percent reduction target of 351,656 metric tons by 2021.

**Measure**

**University credit rating (system)**

**Definition/Discussion**

Moody’s Investors Services routinely monitors the University’s credit rating and takes into account several factors related to the University’s overall financial health, student demand, financial statement analysis, state support, and analysis of the University’s management strength. Moody’s credit ratings range from a high of Aaa to C.

The University works to maintain its current credit rating per Board policy.

**Measure**

**Athletics graduation success rate (GSR) (Twin Cities)**

**Definition/Discussion**

The percentage of first-time, full-time undergraduates in Division I athletics who begin at the Twin Cities campus as freshmen or transfers, receive athletic aid their first year, and graduate within six years of their first term at any institution. The GSR excludes student-athletes who leave the University in good academic standing with remaining athletic eligibility.

Though it functions much like a traditional graduation rate statistic, the GSR is a measure unique to intercollegiate athletics. The GSR holds colleges accountable for graduating those student-athletes who transfer into the University but also does not penalize an institution’s graduation rate for student-athletes that transfer or leave an institution with athletic eligibility and in good academic standing.

The University already ranks very highly in this measure and has the goal to maintain the significant gains of the past several years.
The University of Minnesota shall provide equal access to and opportunity in its programs, facilities, and employment without regard to race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation, gender identity, or gender expression.

The University’s mission, carried out on multiple campuses and throughout the state, is threefold: research and discovery; teaching and learning; and outreach and public service.
Robert McMaster, Acting Executive Vice President and Provost
## Retention and Graduation Rates

<table>
<thead>
<tr>
<th>Campus</th>
<th>First-Year Retention</th>
<th>Four-Year Grad Rate</th>
<th>Six-Year Grad Rate</th>
<th>Four-Year/Six-Year Goals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crookston Campus</td>
<td>74.6%</td>
<td>45.2%</td>
<td>53.0%</td>
<td>45%/60%</td>
</tr>
<tr>
<td>Duluth Campus</td>
<td>83.6%</td>
<td>46.6%</td>
<td>64.9%</td>
<td>45%/68%</td>
</tr>
<tr>
<td>Morris Campus</td>
<td>81.8%</td>
<td>49.1%</td>
<td>69.9%</td>
<td>60%/80%</td>
</tr>
<tr>
<td>Rochester Campus</td>
<td>82.4%</td>
<td>55.4%</td>
<td>66.4%</td>
<td>60%/60%</td>
</tr>
<tr>
<td>Twin Cities Campus</td>
<td>92.9%</td>
<td>71.1%</td>
<td>80.4%</td>
<td>65%/82%</td>
</tr>
</tbody>
</table>
# Twin Cities Four-, Five-, and Six-Year Graduation Rates

<table>
<thead>
<tr>
<th>Year of Matriculation</th>
<th>4-year rates</th>
<th>5-year graduation rate</th>
<th>6-year graduation rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>46.1%</td>
<td>66.7%</td>
<td>70.8%</td>
</tr>
<tr>
<td>2006</td>
<td>47.3%</td>
<td>67.1%</td>
<td>70.8%</td>
</tr>
<tr>
<td>2008</td>
<td>50.7%</td>
<td>69.8%</td>
<td>73.4%</td>
</tr>
<tr>
<td>2010</td>
<td>54.6%</td>
<td>72.7%</td>
<td>75.9%</td>
</tr>
<tr>
<td>2012</td>
<td>58.7%</td>
<td>76.0%</td>
<td>78.8%</td>
</tr>
<tr>
<td>2014</td>
<td>59.6%</td>
<td>75.1%</td>
<td>77.9%</td>
</tr>
</tbody>
</table>

Year of Matriculation

Source: Office of Institutional Research, University of Minnesota
## Enrollment in Graduate Programs by Ethnicity

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>American Indian</td>
<td>76</td>
<td>85</td>
<td>94</td>
<td>101</td>
<td>32.9%</td>
</tr>
<tr>
<td>Asian</td>
<td>411</td>
<td>398</td>
<td>410</td>
<td>424</td>
<td>3.2%</td>
</tr>
<tr>
<td>Black</td>
<td>149</td>
<td>156</td>
<td>173</td>
<td>187</td>
<td>25.5%</td>
</tr>
<tr>
<td>Hawaiian/Pacific Islander</td>
<td>10</td>
<td>8</td>
<td>6</td>
<td>8</td>
<td>-20.0%</td>
</tr>
<tr>
<td>Hispanic</td>
<td>192</td>
<td>204</td>
<td>218</td>
<td>230</td>
<td>19.8%</td>
</tr>
<tr>
<td>Total</td>
<td>838</td>
<td>851</td>
<td>901</td>
<td>950</td>
<td>13.4%</td>
</tr>
</tbody>
</table>

Source: Graduate School, University of Minnesota
<table>
<thead>
<tr>
<th>Program</th>
<th>Degrees Awarded 2017-2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Administration (M.B.A.) – Twin Cities, Duluth</td>
<td>464</td>
</tr>
<tr>
<td>Teaching (M.Ed.)</td>
<td>263</td>
</tr>
<tr>
<td>Medicine (M.D.) – Twin Cities, Duluth</td>
<td>216</td>
</tr>
<tr>
<td>Law (J.D.)</td>
<td>194</td>
</tr>
<tr>
<td>Pharmacy (Pharm.D.) – Twin Cities, Duluth</td>
<td>173</td>
</tr>
<tr>
<td>Social Work (M.S.W.) – Twin Cities, Duluth</td>
<td>161</td>
</tr>
<tr>
<td>Dentistry (D.D.S.)</td>
<td>114</td>
</tr>
<tr>
<td>Doctor of Nursing Practice (D.N.P.)</td>
<td>109</td>
</tr>
<tr>
<td>Veterinary Medicine (D.V.M.)</td>
<td>102</td>
</tr>
<tr>
<td>Business Analytics (M.S.)</td>
<td>99</td>
</tr>
<tr>
<td>Health Care Administration (M.H.A.)</td>
<td>87</td>
</tr>
<tr>
<td>Human Resources and Industrial Relations (M.A.)</td>
<td>83</td>
</tr>
<tr>
<td>Public Policy (M.P.P.)</td>
<td>78</td>
</tr>
<tr>
<td>Rank</td>
<td>Institution</td>
</tr>
<tr>
<td>------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>1</td>
<td>Johns Hopkins U.</td>
</tr>
<tr>
<td>2</td>
<td>U. Michigan, Ann Arbor</td>
</tr>
<tr>
<td>3</td>
<td>U. California, San Francisco</td>
</tr>
<tr>
<td>4</td>
<td>U. Pennsylvania</td>
</tr>
<tr>
<td>5</td>
<td>U. Washington, Seattle</td>
</tr>
<tr>
<td>6</td>
<td>U. Wisconsin-Madison</td>
</tr>
<tr>
<td>7</td>
<td>U. California, San Diego</td>
</tr>
<tr>
<td>8</td>
<td>Duke U.</td>
</tr>
<tr>
<td>9</td>
<td>Harvard U.</td>
</tr>
<tr>
<td>10</td>
<td>Stanford U.</td>
</tr>
<tr>
<td>11</td>
<td>U. North Carolina, Chapel Hill</td>
</tr>
<tr>
<td>12</td>
<td>U. California, Los Angeles</td>
</tr>
<tr>
<td>13</td>
<td>Cornell U.</td>
</tr>
<tr>
<td>14</td>
<td>Massachusetts Institute of Technology</td>
</tr>
<tr>
<td>15</td>
<td>Yale University</td>
</tr>
<tr>
<td>16</td>
<td>U. Pittsburgh</td>
</tr>
<tr>
<td>17</td>
<td>U. Minnesota, Twin Cities</td>
</tr>
<tr>
<td>18</td>
<td>New York U.</td>
</tr>
<tr>
<td>19</td>
<td>Texas A&amp;M</td>
</tr>
<tr>
<td>20</td>
<td>Columbia U.</td>
</tr>
</tbody>
</table>
Outreach Examples

• Neighborhood Leadership and Organizing Program (Center for Urban and Regional Affairs) – 13 skills development trainings held for 210 attendees in academic year

• Duluth’s Center for Economic Development Student to Business Initiative Program – 177 students and 28 businesses participated to develop custom market research and tools

• Institute on the Environment – 195 students learned to develop interdisciplinary environmental solutions, launched 11 programs

• Healthy Foods, Healthy Lives Institute’s conference on Native American Nutrition – 500 tribal officials, researchers, community leaders discussed nutrition and food science

• Summer Institute in Adolescent Health – over 50 researchers and practitioners explored promoting healthy use of technology for teens

• Mini Bioethics Academy (Center for Bioethics) – over 150 in fall and spring series with topics including meaningful work, food justice, and the ethical issues of opioid addiction.

• Extension’s Center for Youth Development – 69k students, 11k adult volunteers carried out school-time youth programs across the state on issues related to youth leadership/civic engagement, STEM, agriculture, and educational pathways
Faculty Awards

Examples of Major Academic Award Categories Since 2012

- Andrew Carnegie Fellowships (two)
- American Academy of Arts and Sciences (ten)
- American Association for the Advancement of Science Fellows (nineteen)
- Guggenheim Fellowships (nine)
- National Academy of Engineering (five)
- National Academy of Medicine (two)
- National Academy of Public Administration (four)
- National Academy of Sciences (five)
AGENDA ITEM: Law School Metrics and Investment Strategy Update

☐ Review ☐ Review + Action ☐ Action ☒ Discussion

☐ This is a report required by Board policy.

PRESENTERS: Brian Burnett, Senior Vice President for Finance and Operations
Garry Jenkins, Dean, Law School

PURPOSE & KEY POINTS

On June 8, 2018, the Board of Regents approved the University of Minnesota FY 2019 Annual Operating Budget, which incorporated the first of a three-year plan to assist the Law School to resolve its structural imbalance. As part of the plan, the Law School’s O&M allocation will be increased over the following two fiscal years (FY 2020 and 2021) upon showing that it is making suitable progress toward its goal of eliminating the long-term structural imbalance by the end of FY21 in accordance to plan.

To assist the Board of Regents, the Joint Financial Oversight Committee, comprised of members from University Budget and Finance, the Office of the Provost, and the Law School, developed a reporting tool to measure the Law School's progress. The metrics span a variety of categories, including J.D. enrollment, revenue targets, staffing and salary levels, and budget expenditures. Once the data for a particular metric is reported, the corresponding box is shaded using one of three colors:

- Green = met or exceeded the projection for that measure
- Yellow = within 10% of the projection for that measure
- Red = more than 10% away from the projection for that measure

In September, the Joint Financial Oversight Committee provided the Board with a progress report, which noted that nearly all of the metrics for this year would be completed by January 2019.

An updated progress report that reflects the Law School’s performance this year is included in the docket. The Law School hit its targets with respect to overall financial performance on both the structural imbalance and year-end transfer for FY18; in fact, the structural imbalance at the close of the year ($3.9 million) was actually lower than the estimate shared with the Board last spring (projected to be at $4.1 million). Although the structural imbalance for FY19 will not be known until after the close of the fiscal year and is subject to fluctuation, it is currently predicted to be lower than that which was projected in the three-year plan ($2.5 million instead of a $2.9 million imbalance).
Overall, the Law School has met or exceeded the projections for all of the metrics on the Progress Report that are currently known. This fall, the Law School enrolled its largest entering J.D. class in seven years (223 students), benefiting from its national reputation/ranking, strong employment outcomes, and strategic enhancements to its recruitment efforts.

The only metric that has not been finalized on the progress report is endowment and gift revenue, which is not fully realized until the end of the fiscal year. The box for that metric has been shaded green but diagonal lines added to indicate that the shading is a forecast of the likely outcome based on current data.

Based on the Law School’s progress in meeting its goals, the Joint Financial Oversight Committee recommends that President Kaler include an increase in the Law School’s O&M allocation in his recommended operating budget for FY 2020. This recommendation is based on the results as displayed in the progress report and is aligned with the original plan. The specific amount of the recommended increase will be determined through an assessment of all budget variables during the budget development process.

**BACKGROUND INFORMATION**

This progress report was developed pursuant to the Board of Regent's adoption of the FY 2019 Annual Operating Budget approved in June 2018.

The Board previously discussed this topic at the following meetings:

- May 2018: *President’s Recommended FY2019 Annual Operating Budget, Finance & Operations Committee*
- June 2018: *President’s Recommended FY2019 Annual Operating Budget, Finance & Operations Committee*
- September 2018: *Information Items (Law School Metrics and Targets), Finance & Operations Committee*
UNIVERSITY OF MINNESOTA LAW SCHOOL PROGRESS REPORT

Ending Structural Imbalance

<table>
<thead>
<tr>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
<th>FY21</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

In accordance with Joint Financial Oversight Committee annual projections (reaching $0 by FY21)

Year-End Transfer

<table>
<thead>
<tr>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
<th>FY21</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

In accordance with Joint Financial Oversight Committee annual projections (reaching $0 by FY20)

Financial & Enrollment

<table>
<thead>
<tr>
<th>Incoming J.D. Class:</th>
<th>At least 205 students for entering classes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y1</td>
<td>✔</td>
</tr>
<tr>
<td>Y2</td>
<td>✔</td>
</tr>
<tr>
<td>Y3</td>
<td>✔</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J.D. Population:</th>
<th>Total J.D. population reaching 599 by 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y1</td>
<td>✔</td>
</tr>
<tr>
<td>Y2</td>
<td>✔</td>
</tr>
<tr>
<td>Y3</td>
<td>✔</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Gross Tuition Revenue:</th>
<th>In accordance with Joint Financial Oversight Committee annual projections (reaching ~$32.6M by FY21)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y1</td>
<td>✔</td>
</tr>
<tr>
<td>Y2</td>
<td>✔</td>
</tr>
<tr>
<td>Y3</td>
<td>✔</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Net Tuition Revenue:</th>
<th>In accordance with Joint Financial Oversight Committee annual projections (reaching ~$1.4M of additional recurring revenue by FY21)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y1</td>
<td>✔</td>
</tr>
<tr>
<td>Y2</td>
<td>✔</td>
</tr>
<tr>
<td>Y3</td>
<td>✔</td>
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</table>

<table>
<thead>
<tr>
<th>Endowment and Gift Revenue:</th>
<th>In accordance with Joint Financial Oversight Committee annual projections (reaching ~$281K of additional recurring revenue by FY21)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y1</td>
<td>✔</td>
</tr>
<tr>
<td>Y2</td>
<td>✔</td>
</tr>
<tr>
<td>Y3</td>
<td>✔</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Budget Expenditure Reallocation:</th>
<th>~40% greater than general budget targets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y1</td>
<td>✔</td>
</tr>
<tr>
<td>Y2</td>
<td>✔</td>
</tr>
<tr>
<td>Y3</td>
<td>✔</td>
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</table>

Operations & Outcomes

<table>
<thead>
<tr>
<th>Salary Levels (Instructional):</th>
<th>Instructional expenditures per student below FY17 levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y1</td>
<td>✔</td>
</tr>
<tr>
<td>Y2</td>
<td>✔</td>
</tr>
<tr>
<td>Y3</td>
<td>✔</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Salary Levels (Staff):</th>
<th>Staff expenditures per student below FY17 levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y1</td>
<td>✔</td>
</tr>
<tr>
<td>Y2</td>
<td>✔</td>
</tr>
<tr>
<td>Y3</td>
<td>✔</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Headcount (Faculty):</th>
<th>Number of faculty positions at or below FY17 levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y1</td>
<td>✔</td>
</tr>
<tr>
<td>Y2</td>
<td>✔</td>
</tr>
<tr>
<td>Y3</td>
<td>✔</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Headcount (Staff):</th>
<th>Number of staff positions at or below FY17 levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y1</td>
<td>✔</td>
</tr>
<tr>
<td>Y2</td>
<td>✔</td>
</tr>
<tr>
<td>Y3</td>
<td>✔</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Incoming Credentials (LSAT):</th>
<th>87th-90th percentile Median LSAT for entering classes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y1</td>
<td>✔</td>
</tr>
<tr>
<td>Y2</td>
<td>✔</td>
</tr>
<tr>
<td>Y3</td>
<td>✔</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Incoming Credentials (GPA):</th>
<th>3.73+ Median GPA for entering classes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y1</td>
<td>✔</td>
</tr>
<tr>
<td>Y2</td>
<td>✔</td>
</tr>
<tr>
<td>Y3</td>
<td>✔</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Student Outcomes (Bar Passage):</th>
<th>MN Bar Passage (July first-time takers) above state average for graduating classes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y1</td>
<td>✔</td>
</tr>
<tr>
<td>Y2</td>
<td>✔</td>
</tr>
<tr>
<td>Y3</td>
<td>✔</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Student Outcomes (Employment):</th>
<th>Employment at 10 months above national average for graduating classes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y1</td>
<td>✔</td>
</tr>
<tr>
<td>Y2</td>
<td>✔</td>
</tr>
<tr>
<td>Y3</td>
<td>✔</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Philanthropy (Total Production):</th>
<th>In accordance with projections</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y1</td>
<td>✔</td>
</tr>
<tr>
<td>Y2</td>
<td>✔</td>
</tr>
<tr>
<td>Y3</td>
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</table>

<table>
<thead>
<tr>
<th>Philanthropy (Annual Fund):</th>
<th>In accordance with projections</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y1</td>
<td>✔</td>
</tr>
<tr>
<td>Y2</td>
<td>✔</td>
</tr>
<tr>
<td>Y3</td>
<td>✔</td>
</tr>
</tbody>
</table>

Note: Projections for FY20 and FY21 are contingent upon the Board of Regents’ approval of the President’s Recommendation on Law School O&M.
Definitions

Incoming J.D. Class: Number of first-year J.D. students for classes entering in 2018, 2019, and 2020. [Drawn from information reported to the ABA, available by Nov.]

J.D. Population: Total number of J.D. students from all class years enrolled in 2018 (555 target), 2019 (590 target), and 2020 (599 target), including those students who have recently transferred into the Law School. [ABA, Nov.]

Gross Tuition Revenue: Includes tuition received in FY19, FY20, and FY21 for all degree programs, including the J.D., LL.M., and Patent Law programs. Also includes tuition income generated from cross-college enrollment, including the joint undergraduate minor with the Carlson School of Management. [SVP Finance and Operations, Nov.]

Net Tuition Revenue: Tuition revenue received for all programs and courses in FY19, FY20, and FY21, after accounting for scholarship expenditures. [SVP Finance and Operations, Nov.]

Endowment and Gift Revenue: Includes spendable income produced by endowments held by the Law School as well as all current use gifts received by the Law School in FY19, FY20, and FY21. [SVP Finance and Operations, July]

Budget Expenditure Reallocation: The Law School must meet reallocation targets for FY19, FY20, and FY21 that are ~40% higher than the general reallocation targets set by University Budget and Finance. [SVP Finance and Operations, Jan.]

Salary Levels (Instructional): Amount spent on instructional salaries in FY18, FY19, and FY20, relative to the J.D. student population. Compared to FY17 baseline ($24,644). [ABA, Nov.]

Salary Levels (Staff): Amount spent on staff salaries in FY18, FY19, and FY20, relative to the J.D. student population. Compared to FY17 baseline ($12,547). [ABA, Nov.]

Headcount (Faculty): Total number of faculty positions in FY18, FY19, and FY20. Includes tenure/tenure track, clinical, and other instructional employees, whether full-time or on phased retirement. Excludes four faculty who hold academic leadership positions. Compared to FY17 baseline (53). [SVP Finance and Operations, Nov.]

Headcount (Staff): Number of staff positions in FY18, FY19, and FY20. Includes full-time and part-time employees. Compared to FY17 baseline (118). [SVP Finance and Operations, Nov.]

Incoming Credentials (LSAT): The Median LSAT score among all first-year students who have matriculated at the Law School in Fall 2018, 2019, and 2020. [ABA, Nov.]

Incoming Credentials (GPA): The Median Undergraduate GPA among all first-year students who have matriculated at the Law School in Fall 2018, 2019, and 2020. [ABA, Nov.]

Student Outcomes (Bar Passage): The bar passage rate among first-time takers on the Minnesota Bar Examination in 2018, 2019, and 2020, in comparison to the bar passage rate among all first-time takers on the bar exam. The majority of Law School graduates sit for the Minnesota Bar Examination. [ABA/MBLE, Nov.]

Student Outcomes (Employment): The percentage of graduates in 2017, 2018, and 2019 who secured full-time, long term J.D. required or J.D. advantage positions within 10 months of graduation, in comparison to the percentage for all law school graduates nationwide. [ABA/NALP, Aug.]

Philanthropy (Total Production): Includes all new gifts (annual, major, planned), pledges, and commitments made to the Law School in FY18, FY19, and FY20. Does not include payments made on an existing pledge. ($4.5M for FY18). [UMF, July]

Philanthropy (Annual Fund): Includes all current use gifts made to the Law School for unrestricted, scholarship, or general operating funds in FY18, FY19, and FY20 ($1M for FY18). [UMF, July]
University Plan

Law School

- Reduce Discretionary Expenses
- Increase Net Tuition Revenue
- Increase Enrollment
- Increase Philanthropy
- Joint Finance Committee to Oversee and Demonstrate Suitable Progress Toward Plan

Elimination of Structural Imbalance by end of FY21

Planned Additional Recurring Support

<table>
<thead>
<tr>
<th></th>
<th>Year 1 Actual</th>
<th>Year 2 Projected</th>
<th>Year 3 Projected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Millions</td>
<td>$2.0</td>
<td>$1.5</td>
<td>$1.3</td>
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</table>
# Law School Progress Report

## Overall Financial Progress

<table>
<thead>
<tr>
<th>Metric</th>
<th>Status</th>
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<tbody>
<tr>
<td>Ending Structural Imbalance (in line with projections)</td>
<td>✔️</td>
</tr>
<tr>
<td>Year-End Transfer (in line with projections)</td>
<td>✔️</td>
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</table>

## Financial & Enrollment Metrics

<table>
<thead>
<tr>
<th>Metric</th>
<th>Status</th>
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</thead>
<tbody>
<tr>
<td>Incoming Class &amp; J.D. Population</td>
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</tr>
<tr>
<td>Tuition Revenue</td>
<td>✔️</td>
</tr>
<tr>
<td>Endowment &amp; Gift Revenue</td>
<td>✔️</td>
</tr>
<tr>
<td>Budget Expenditure Reallocation</td>
<td>✔️</td>
</tr>
</tbody>
</table>

## Highlights

- **Largest entering J.D. class in 7 years**
- **Exceeded enrollment target by 9%**
- **Expenses (excl. student aid) reduced by 33% from FY16-FY18**
# Law School Progress Report

## Operations & Outcomes

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salary Levels</td>
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</tr>
<tr>
<td>Headcount</td>
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</tr>
<tr>
<td>Incoming Student Credentials (LSAT and UGPA)</td>
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</tr>
<tr>
<td>Bar Passage</td>
<td></td>
</tr>
<tr>
<td>Post Graduate Employment</td>
<td></td>
</tr>
<tr>
<td>Philanthropy</td>
<td></td>
</tr>
</tbody>
</table>

## Highlights

- **Incoming class 90th percentile LSAT score**
- **Bar passage 91% (vs. 81% statewide)**
- **Employment +9% points above national average**
Progress Toward Eliminating Structural Imbalance

<table>
<thead>
<tr>
<th>FY16</th>
<th>FY17</th>
<th>FY18</th>
<th>FY19</th>
</tr>
</thead>
<tbody>
<tr>
<td>$5.8</td>
<td>$5.0</td>
<td>$4.1</td>
<td>$3.9</td>
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<td>$5.0</td>
<td>$4.1</td>
<td>$3.9</td>
<td>$3.9</td>
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<td>$5.0</td>
<td>$4.1</td>
<td>$3.9</td>
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</tr>
<tr>
<td>$5.0</td>
<td>$4.1</td>
<td>$3.9</td>
<td>$3.9</td>
</tr>
</tbody>
</table>

Millions:
- $2.5
- $2.9
- $3.9
- $4.1
- $5.0
- $5.8
- $5.8
- $5.0
- $4.1
- $3.9
- $3.9
- $3.9
- $3.9
- $2.5
- $2.9

Plan vs. Actual
Future Success/Concerns

Applications Up 20% due to Enhanced Recruiting, Programs, and Reputation

Successful Launch of Law School Campaign

Collaborate with Joint Finance Committee to Streamline Operations

LL.M. Program Enrollment Dropped 25% Last Year

Competitive Pressure to Limit Tuition Increases—Already in the Highest 5 Among Public Peers

Seven Closest Competitors All Increased Median Scholarships Awarded Since 2016
Conclusions

• The Law School has made good first year progress on the three-year financial recovery plan

• Consideration of year two of the investment plan will be brought as part of the University’s FY20 budget plan in June

• Questions?
Board of Regents

February 8, 2019


☐ Review ☐ Review + Action ☐ Action ☒ Discussion

☒ This is a report required by Board policy.

Presenters: Christopher J. Cramer, Vice President for Research

PURPOSE & KEY POINTS

The purpose of this item is to fulfill a board policy annual reporting obligation and for the Board of Regents to hear an update about the health of the University of Minnesota’s research and technology commercialization programs.

Key Points Include:

- Research Statistics
- National and Global Comparative Analysis
- Technology Commercialization Statistics and Outcomes
- Capacity Building Program Investments
- Research Strategic Priorities

BACKGROUND INFORMATION

Each year the Vice President for Research provides the Annual Report on the Status of University Research and Commercialization of Intellectual Property for the Board of Regents, summarizing the University of Minnesota’s research outcomes for the past fiscal year, documenting the trends in research productivity, scholarship and commercialization of intellectual property as well as benchmarking the University’s performance and ranking among its peer group. In addition, the Vice President reports progress on a broad set of strategic priorities and principles that build upon the University’s historical research strengths and strategies to address barriers to research success.
Each year the Vice President for Research provides the Annual Report on the Status of University Research and Commercialization of Intellectual Property for the Board of Regents, summarizing the University of Minnesota’s research metrics for the past fiscal year, documenting the trends in research productivity, scholarship, and commercialization of intellectual property as well as benchmarking the University’s performance and ranking among its peer group. In addition, the Vice President reports progress on a broad set of strategic priorities and national trends.

The FY2018 annual report includes:

Message from the Vice President for Research 2

Research Statistics (award funding) 4

- Current year totals and comparison with previous year
- 10-year award trends by external source of funds and peer comparison

National and Global Comparative Analysis (expenditures) 9

- Higher education research and development (R&D) expenditures
- National and global rankings among public research universities

Technology Commercialization 10

- Technology Licensing
- Business Partnerships
- Venture Center
- Entrepreneurship Programs

Capacity Building Programs 15

- Minnesota’s Discovery, Research, and InnoVation Economy (MnDRIVE)
- University Grand Challenges Research
- OVPR Research Advancement Funding Programs
- Increasing Informatics Capabilities

Research Strategic Priorities 19

Abbreviations 22
Message from the Vice President for Research Christopher J. Cramer

According to the latest NSF HERD Survey, the University of Minnesota's research expenditures continue to rank it in the top ten among public universities nationwide. We take pride in this statistic not because it is an arbitrary metric to chase, but because of what it implies about the scholarly work being undertaken by our faculty, staff, and students. It is proof of the breadth of our contributions—our influence on fields from biomedicine to public policy, from sustainability to social justice, from economics to animal husbandry, from education to engineering—we are entrusted with doing it all. Our ranking is also a measure of our economic impact on the state in which we reside: most recently estimated at $1.2 billion per year (Tripp Umbach, 2018), University research is an engine that drives economic growth in every county.

Finally, the intensity of our research activity is a critical indicator of the transformative experiences we offer to our students, at every level, at all of our system campuses. As the only Carnegie R1 (Highest Research Activity) institution in Minnesota, we provide our students with access to state-of-the-art resources that let them engage outside the classroom, harnessing their diverse talents and perspectives to enhance the scope of the research mission. Indeed, precisely because of that engagement, research at the University of Minnesota is teaching, and uniquely prepares our graduates to address the ever evolving challenges that we all together face as a society and as a world.

While numbers capture the totality of our research effort, it is always worthwhile to highlight a few specific examples, if only to emphasize the key role that individual researchers play in our collective endeavors. At the Large Lakes Observatory, researchers received funding from the National Science Foundation to study the effects of invasive quagga and zebra mussels on Great Lakes fisheries and water quality. In a remarkable trifecta, three professors were awarded prestigious Guggenheim fellowships for their pioneering work in bioethics, nanotechnology, and multimedia art. In Chemistry, my own department, the Inorganometallic Catalyst Design Center was renewed as an Energy Frontier Research Center by the Department of Energy with $12 million for the next four years. The Mellon Foundation chose the University of Minnesota Morris to receive an Engaged and Engaging Humanities award to develop further the centrality of these disciplines to critical thinking. And, in a ringing endorsement of past success and future potential, the University’s Clinical Translational Science Institute was renewed for five years with $42.6 million in new funding from the National Institutes of Health (NIH). These are just a few stars in the constellation of researcher achievements over the last fiscal year.

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2 Tripp Umbach, March 2018, Economic Impact of University of Minnesota FY17, https://z.umn.edu/economic-impact
As we look forward, the University is well poised to continue to deliver on its research goals with respect to our local infrastructure and expertise. Importantly, the recently finalized agreement between the University and Fairview Health Services bodes well for increased research activity involving human health and clinical trials. One area of concern relates to future federal funding for research. Although the past two years have seen welcome boosts to such funding for select research agencies, most notably the National Institutes of Health, it is unlikely that this trend will continue as all federal discretionary spending comes under pressure from ballooning budget deficits.

In part to address that risk, it is important that we continue to grow our engagement with business and industry. Such engagement offers not only opportunities for increased sponsored research and licensing income, but also provides a means to connect students with potential employers and to strengthen relationships with potential partners for new strategic investments. With those goals in mind, it is a pleasure to note that in FY2018, the University executed a record number of new license deals (230), a record number of Minnesota Innovation Partnership agreements (MN-IP; 86), and moreover launched 13 startup companies with another 27 in the pipeline moving along.

The Office of the Vice President for Research (OVPR) is privileged to facilitate the efforts of University researchers as they pursue excellence in their endeavors with an extraordinary commitment to research ethics. We look forward to continuing to foster systemwide progress as the University’s strategic plan is realized.
Research Statistics: Fiscal Year 2018

University of Minnesota faculty and staff competed successfully for $793 million in externally sponsored research awards in FY2018, up 6.5% from FY2017. This $49 million increase follows a sustained pattern of average growth since FY2012, and the total is a record level of awards in current dollars for the University even when funds from the one time American Recovery and Reinvestment Act of 2009 are taken out (more analysis on this follows in the 10-Year Trends on page 6). In addition, the average total amount received per award increased this year as well, from $153,600 per award in FY2017 to $157,700 per award in FY2018.

As is generally the case, the University receives more research funding from federal than nonfederal sources of funding. This year the University was awarded $494 million from federal sources, up $56 million (12.7%) from the previous year and these federal sources represented 62.3% of total new externally sponsored research. Funding from all nonfederal sources declined $7 million (9.2%) to $299 million primarily due to decreased private research funding which was down $21 million (9.1%).

As shown in Figure 1, research awards from the National Institutes of Health (NIH), the largest single federal funding source within the University’s research portfolio, totaled $265.5 million. This amount is an increase of $22 million (8.8%) over the previous year. In recent years, the timing and size of major NIH awards have been dramatically shifting, affecting the University’s federal research totals as much as $30 million in one year (See Table 1). In FY2018, that timing resulted in an upward swing in award amounts and was punctuated by an $8.25 million award to the University’s Center for Clinical and Translational Science Institute (CTSI). (CTSI is approved to receive a total of $42.6 million over the next five years under its renewal by NIH.) In addition to dollars, the total number of NIH awards received also grew by a large factor, 18.2% to 791 in FY2018.

The National Science Foundation (NSF) represents the second largest federal sponsor of University research, and University researchers competed successfully for $80.6 million, a $9 million (12.5%) increase over the previous year. Their total number of awards also increased slightly by 13 (5%) to 283 in FY2018.

The increased awards from both NIH and NSF roughly paralleled these agencies’ augmented overall budgets. In March 2018, NIH received its largest year over year increase in nearly a decade. NIH’s budget was increased for federal FY2019, but FY2019 appropriations for NSF were not resolved by the end of calendar year 2018.

State of Minnesota research funding granted to the University increased this year by $12 million (17.7%) to $90.3 million, with the state returning to its pattern of granting larger dollar awards. The awards received this year were distributed across broad areas of research, including biotechnology and medical genomics, regenerative medicine, and
nutrition. The state’s other large research investment, MnDRIVE, is accounted for separately from these external award totals and discussed later in this report.

**Figure 1: Awards by Source (FY2018)**

![Circular chart showing dollar amounts represented in millions.](chart)

In contrast to federal and state sponsored research, business and industry (B&I) funding was down $20 million (23.5%) in FY2018, declining to $64 million from $84 million last year. The total number of B&I awards received by the University also fell — 1,509 this year compared with 1,578 in FY2017, or a decrease of 4.4%. This decline in funding is discussed in more detail later in this report under 10-Year Trends.

Figure 2 illustrates how the $793 million of externally sponsored research funding is distributed within the University by college and campus. This year, those with the largest annual percentage increases in research funding include: AHC Shared Units up $14.7 million (21.5%), College of Liberal Arts, up $13 million (96.7%) and the College of Biological Sciences up $11 million (54.6%). Those colleges with the largest decrease in funding included the School of Public Health, down $15 million (19.3%), and the Medical School, down $14 million (6.7%).

Overall, 51 percent of all fiscal 2018 research awards ($407.8 million) were to medical and health science schools and related units, underscoring the University’s broad strength
across many biomedical and health disciplines. The CTSI renewal along with the more recent partnership agreement between the University of Minnesota and Fairview Health Services lay a strong foundation for biomedical and clinical research in the future.

**Figure 2: Awards by College & Campus (FY2018)**

![Figure 2: Awards by College & Campus (FY2018)](image)

*Dollar amounts represented in millions
Office of the Vice President for Research Data Services*

### 10-Year Trends

Figure 3 and Table 1 below summarize a ten-year distribution trend of externally sponsored research awards in nominal dollars (not adjusted for inflation) for FY2009 to FY2018. As is common with award funding, there is considerable fluctuation that can occur between years caused by many factors, but most commonly delays in federal funding cycle distributions and large awards that fund multiple years.

While federal and state funds were up in FY2018, business and industry funding was down 23.5%. The FY2018 decline in B&I funding ends a three-year run of increased funding. In contrast, the total number of B&I awards received, while down 4.4%, was not down as dramatically and remained close to last year’s total of 1,578 total awards. In FY2018, OVPR in partnership with other units such as the University of Minnesota Foundation, continued to pursue public-private partnership strategies, including MnDRIVE, the Minnesota Innovation Partnerships (MN-IP) program, and the Corporate Engagement Workgroup (CEW). No one reason appears to be behind the FY2018 decline,
but OVPR leadership will continue to examine the drop and to evaluate current University approaches to public-private partnerships.

**Figure 3: Awards by Major Source (FY2009-2018)**

Dollar amounts represented in millions
Office of the Vice President for Research Data Services
These data do not include awards received from ARRA: The American Recovery and Reinvestment Act of 2009, the federal stimulus bill.

**Table 1: Awards by Major Source (FY2009-2018)**

<table>
<thead>
<tr>
<th>Year</th>
<th>Federal</th>
<th>Business &amp; Industry</th>
<th>State &amp; Local</th>
<th>Other Private</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>$409.3</td>
<td>$41.7</td>
<td>$46.8</td>
<td>$104.1</td>
<td>$601.9</td>
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<tr>
<td>2010</td>
<td>$472.7</td>
<td>$45.5</td>
<td>$61.8</td>
<td>$111.3</td>
<td>$691.3</td>
</tr>
<tr>
<td>2011</td>
<td>$488.5</td>
<td>$43.6</td>
<td>$50.0</td>
<td>$112.8</td>
<td>$694.9</td>
</tr>
<tr>
<td>2012</td>
<td>$507.7</td>
<td>$55.2</td>
<td>$59.7</td>
<td>$123.9</td>
<td>$746.6</td>
</tr>
<tr>
<td>2013</td>
<td>$475.2</td>
<td>$47.6</td>
<td>$53.1</td>
<td>$116.8</td>
<td>$692.6</td>
</tr>
<tr>
<td>2014</td>
<td>$490.0</td>
<td>$55.2</td>
<td>$64.6</td>
<td>$130.1</td>
<td>$740.0</td>
</tr>
<tr>
<td>2015</td>
<td>$463.1</td>
<td>$78.0</td>
<td>$79.3</td>
<td>$133.0</td>
<td>$753.5</td>
</tr>
<tr>
<td>2016</td>
<td>$465.9</td>
<td>$80.8</td>
<td>$90.9</td>
<td>$149.9</td>
<td>$787.5</td>
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<tr>
<td>2017</td>
<td>$438.9</td>
<td>$83.9</td>
<td>$76.4</td>
<td>$145.3</td>
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<tr>
<td>2018</td>
<td>$494.5</td>
<td>$64.1</td>
<td>$90.3</td>
<td>$144.1</td>
<td>$793.1</td>
</tr>
</tbody>
</table>
On a positive note, MnDRIVE-supported researchers attracted $3.9 million in B&I funding in FY2018, and, as indicated in Table 3, the funding level of industry sponsored research projects using MN-IP agreements continues to grow.

Figure 4 compares research award funding over 10 years with selected members of the Big Ten Academic Alliance (BTAA, formerly the Committee on Institutional Cooperation). Within this elite group of universities, the University of Minnesota ranks third among Big Ten schools.

**Figure 4: Award Funding by Big Ten Academic Alliance (BTAA) Institutions (3-year average, FY2009-2018)**
National and Global Analysis: R&D Peer Comparison

Analysis of Research Expenditures

According to the most recent 2017 National Science Foundation Higher Education Research and Development (NSF HERD) Survey, the University maintained its top 10 status among public research universities, posting $922 million in research expenditures (Table 2). The University of Minnesota maintained its top ten status with increased R&D expenditures from FY2016 to FY2017.

Table 2: Top 20 US Public Research Universities

<table>
<thead>
<tr>
<th>University</th>
<th>NSF / HERD 2017</th>
<th>CMUP 2017</th>
<th>ARWU (Shanghai) 2018</th>
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</thead>
<tbody>
<tr>
<td>Michigan</td>
<td>$1,530,139</td>
<td>9 of 9</td>
<td>27</td>
</tr>
<tr>
<td>UC San Francisco*</td>
<td>$1,409,398</td>
<td>6 of 8</td>
<td>21</td>
</tr>
<tr>
<td>Washington</td>
<td>$1,348,220</td>
<td>8 of 9</td>
<td>14</td>
</tr>
<tr>
<td>Wisconsin</td>
<td>$1,393,413</td>
<td>9 of 9</td>
<td>28</td>
</tr>
<tr>
<td>UC San Diego</td>
<td>$1,333,454</td>
<td>9 of 9</td>
<td>15</td>
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<tr>
<td>North Carolina</td>
<td>$1,102,063</td>
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<td>30</td>
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<tr>
<td>UCLA</td>
<td>$1,076,917</td>
<td>9 of 9</td>
<td>11</td>
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<tr>
<td>Pittsburgh</td>
<td>$939,706</td>
<td>7 of 9</td>
<td>90</td>
</tr>
<tr>
<td>MINNESOTA - TWIN CITIES</td>
<td>$921,681</td>
<td>9 of 9</td>
<td>90</td>
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<tr>
<td>Texas A&amp;M</td>
<td>$905,474</td>
<td>7 of 9</td>
<td>151-200</td>
</tr>
<tr>
<td>Univ Texas M.D. Anderson Cancer Ctr.*</td>
<td>$888,029</td>
<td>2 of 8</td>
<td>100</td>
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<tr>
<td>Ohio State</td>
<td>$864,327</td>
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<td>94</td>
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<tr>
<td>Penn State</td>
<td>$854,919</td>
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<td>74</td>
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<tr>
<td>Georgia Tech</td>
<td>$804,301</td>
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<td>79</td>
</tr>
<tr>
<td>Florida</td>
<td>$801,418</td>
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<tr>
<td>UC Berkeley</td>
<td>$770,822</td>
<td>9 of 9</td>
<td>5</td>
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<tr>
<td>UC Davis</td>
<td>$738,347</td>
<td>5 of 9</td>
<td>96</td>
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<tr>
<td>Michigan State</td>
<td>$694,947</td>
<td>5 of 9</td>
<td>101-150</td>
</tr>
<tr>
<td>Rutgers</td>
<td>$681,719</td>
<td>4 of 9</td>
<td>101-150</td>
</tr>
<tr>
<td>Texas (Austin)</td>
<td>$652,187</td>
<td>8 of 9</td>
<td>40</td>
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<tr>
<td>Illinois</td>
<td>$642,084</td>
<td>8 of 9</td>
<td>41</td>
</tr>
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</table>

Dollar amounts represented in thousands
National Science Foundation's HERD Survey
*The University of California - San Francisco and University of Texas M.D. Anderson Cancer Center are stand-alone medical schools without undergraduate education programs. Therefore, the highest CMUP ranking they can obtain is 8 rather than 9 as they do not have SAT scores for ranking purposes.
The HERD survey is the primary source of comparative information on R&D expenditures at US colleges and universities. It is completed by over 900 universities and colleges every year, producing the most accurate statistics on US higher education R&D spending. Because of survey reporting requirements, the University’s $922 million represents research expenditures for the Twin Cities campus only. When all U of M campuses are reported together, total R&D expenditures systemwide is $948 million; this amount would have maintained the University’s #8 ranking.

As was true last year, the University remains clumped with five other institutions whose totals are within $100 million of each other. This year those peer institutions had research totals ranging from $850 million to $950 million, with the University of Pittsburgh edging out the University of Minnesota by 2% to become number eight and number nine, respectively, among public universities in the 2017 HERD rankings.

As is evidenced in Table 2, the University remains among an elite group of US public research universities. While there is no single indicator or composite number that accurately represents what an individual institution has done, can do, or will do, the HERD survey data does provide a credible and nationally accepted basis for comparison. The University of Minnesota is among the top 2% of colleges and universities reporting in the HERD survey.

In addition, Table 2 also includes two other widely accepted and cited ranking systems, the Center for Measuring University Performance (CMUP)³ and the Academic Ranking of World Universities (ARWU)⁴. These systems rely on a number of indicators that serve as a proxy for accomplishments and strength relative to the best performing research institutions in the country and the world. By both these additional measures, the University remains highly competitive and has not lost any ground when compared with its peers.

Technology Commercialization

The University of Minnesota is committed to facilitating and accelerating the transfer of knowledge into the world where it can have the most impact and do the most good.

UMN’s Technology Commercialization office is a key part of that process at the University, working from the inside out and the outside in to match research with the needs of industry. Bridging the University and the business community, Technology Commercialization guides those interested in launching new companies, licensing new ideas and innovations, sponsoring research, and accessing University expertise. Its business-friendly approaches and active engagement in the community have yielded

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³ Center for Measuring University Performance. 2016. The Top American Research Universities. http://mup.umass.edu/University-Data
positive relationships with businesses of all sizes, investors, entrepreneurs, and public sector partners.

**Highlights**

- A major effort to increase patent reimbursement costs from licensees led to a 67% increase in revenue in this category from the previous fiscal year ($1.3 million to $2.2 million). The number of issued patents also increased (147 to 186). See Table 3.
- A record number of MN-IP agreements (86) and an increase in the number of companies who have signed agreements (58). Since its inception in 2011, MN-IP has led to 414 agreements with 233 unique companies and a value of over $75 million in research sponsorship.
- The Venture Center launched 13 new startup companies and ended FY2018 with 27 companies in the startup pipeline.

**Table 3: Technology Commercialization Data (FY2014-2018)**

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GENERAL</strong></td>
<td></td>
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<tr>
<td>Invention Disclosures</td>
<td>343</td>
<td>354</td>
<td>402</td>
<td>406</td>
<td>400</td>
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<tr>
<td>New Licenses*</td>
<td>154</td>
<td>268</td>
<td>194</td>
<td>213</td>
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<tr>
<td>Current Revenue Generating Agreements*</td>
<td>429</td>
<td>544</td>
<td>528</td>
<td>545</td>
<td>575</td>
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<tr>
<td>Gross Revenues</td>
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<td>$20.2</td>
<td>$46.9</td>
<td>$22.6</td>
<td>$16.1</td>
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<td>Outgoing Material Transfer Agreements</td>
<td>288</td>
<td>297</td>
<td>273</td>
<td>253</td>
<td>188</td>
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<tr>
<td><strong>PATENTS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Issued Patents (US and Foreign)</td>
<td>104</td>
<td>136</td>
<td>168</td>
<td>147</td>
<td>186</td>
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<tr>
<td>New Patent Filings</td>
<td>138</td>
<td>146</td>
<td>202</td>
<td>232</td>
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<tr>
<td><strong>MN-IP</strong></td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>MN-IP Research Agreements</td>
<td>51</td>
<td>69</td>
<td>81</td>
<td>72</td>
<td>86</td>
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<tr>
<td>Companies W/ MN-IP Research Agreements</td>
<td>44</td>
<td>54</td>
<td>62</td>
<td>51</td>
<td>58</td>
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<tr>
<td>Sponsored Research Commitments</td>
<td>$4.3</td>
<td>$10.8</td>
<td>$12.2</td>
<td>$20.9</td>
<td>$21.3</td>
</tr>
<tr>
<td><strong>STARTUPS</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Startup Companies</td>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>13</td>
</tr>
</tbody>
</table>

*Dollar amounts represented in millions*

Technology Commercialization, InfoEd System; U of M Enterprise Financial System

*New Licenses and Current Revenue Generating Agreements: FY2015 includes 94 licenses for the FAST technology, spun out that year as FastBridge Learning.*
Technology Licensing

Technology Commercialization staff continued to reinforce the UMN's internationally recognized leadership in university technology transfer, with the UMN ranked as the sixth best public university technology transfer office in the country, and fourth among all US universities in terms of license deals completed, according to a study by the Milken Institute (2017). The University of Minnesota was also ranked 29th on the most recent list of the Top 100 Worldwide Universities Granted US Patents released by the National Academy of Inventors and the Intellectual Property Owners Association, which noted UMN was awarded 75 patents during calendar year 2017, a 70% increase over two years. In May 2018, UMN's Technology Commercialization office was named one of five finalists nominated worldwide for the 2018 "Tech Transfer Unit of the Year" award from London-based Global University Venturing.

Table 3 shows that license disclosures by University researchers remained relatively steady in FY2018 compared to recent years, and the number of new licenses for University technologies and current revenue generating agreements were up by 17 (8.0%) and 30 (5.5%), respectively. The number of patents granted to UMN inventors increased FY2017 to FY2018, from 147 to 186, an increase of 26.5%. Gross revenues, historically a volatile category affected by large one-time transactions, dipped from $22.6 million to $16.1 million.

Business Partnerships

UMN Technology Commercialization is nationally recognized as a leader in transforming discoveries into innovative solutions by streamlining partnerships between businesses and the University. Its groundbreaking program, Minnesota Innovation Partnerships (MN-IP), is designed to make it easier for industry to work with the University, both in sponsoring research and in licensing technology. MN-IP (Progress Card Measure) has two programs:

- Try and Buy, a low-risk, low-cost means for companies to test University technology, including pre-set, industry-friendly licensing terms, which now includes 163 available technologies.

- MN-IP Create, a program designed and updated in response to industry feedback, which streamlines the process for industry-sponsored research and licensing of resultant IP. The menu of licensing options from which companies can choose includes fixed-fee and exclusive or non-exclusive licensing. As mentioned above, MN-IP Create has facilitated 414 agreements with 233 unique companies and $75

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In FY2018, Technology Commercialization staff played a lead role in securing two major sponsored research contracts (Mitsubishi Tanabe Pharma and Toray), facilitated expedited business access from a range of companies across the state, and represented the UMN at conferences and meetings statewide.

Technology Commercialization supported Minnesota's broader entrepreneurial community as sponsors, along with Boston Scientific, the University's Earl E. Bakken Medical Devices Center, and Mayo Clinic, of gBETA Medtech, a free seven-week medtech company accelerator.

Advances in neuroscience have the potential to bring about new and improved treatments for those with debilitating, brain-related health problems. University of Minnesota In FY2018, Technology Commercialization worked to form connections between University neuroscience researchers and industry leaders to help technologies move beyond the lab and through the regulatory process.

To highlight some of the many licensable University neuroscience innovations, UMN Technology Commercialization invited industry experts and investors at the 17th Annual Design of Medical Device Conference in April 2018 to a Neuroscience Technology Showcase. The event gave University researchers an opportunity to discuss their inventions based on different forms of "neuromodulation," where scientists use high-frequency sound waves or implanted electrodes to affect the activity of certain neural circuits. Neuromodulation interventions have been found to decrease symptoms and improve brain function, potentially with fewer side effects and longer-lasting benefits than existing treatments for diseases such as Parkinson's, Alzheimer's, and other brain disorders.

**Venture Center**

By the end of FY2018, the University had launched 127 startups since 2006, with 77% still active, and had developed a strong startup pipeline of technologies with the potential to spin out into new companies.

University startup companies founded since the Venture Center was formed in 2006 have raised, conservatively, over $405 million in outside investment capital. Several University startup companies are also moving to the next stage of startup growth: business transitions, where startup companies scale up, go public, or are acquired. Three UMN startup companies transitioned ownership in FY2018: Calyxt, a consumer-centric, food- and agriculture-focused company, became a publicly traded company; Medication Management, a patient-centered medication therapy management service, was acquired by Genoa Healthcare; and Flipgrid, a company based on interactive classroom video technology, was acquired by Microsoft.
Two UMN startup companies were approved for funding consideration under the Discovery Capital investment program. Launched in 2014 to help University startups overcome the high hurdle of early-stage financing, the program offers seed funding with a requirement that the investment be led and matched by external investors. The program has invested $2.7 million to date, attracting total matches of $20 million.

Two UMN startup companies participated in gBETA accelerator programs offered by gener8tor, a nationally ranked accelerator: enVerde, which creates synthetic gas from organic waste; and Soundly, which offers a smartphone game designed to reduce snoring through physical therapy. Both companies completed their accelerator programs with a pitch at gener8tor’s final event.

In FY2018, the University of Minnesota Venture Center supported the launch of 13 startup companies in a wide range of industry sectors. Since FY2006, the largest share of our startups has been in software/IT, followed by bio/pharma, and medical devices (see table 4). This well-diversified list reflects the many strengths of the U of M’s research portfolio, the broad industry experience of Technology Commercialization staff, and the opportunities afforded by Minnesota’s diverse economy. In addition to companies that are spun out, the Venture Center is typically working with 20 to 30 other potential companies in its startup pipeline that are advancing toward company formation.

Table 4: Supporting Minnesota’s Entrepreneurial Ecosystem

<table>
<thead>
<tr>
<th>Startups by Sector</th>
<th>YTD FY18</th>
<th>FY06–YTD FY18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bio/Pharma</td>
<td>2</td>
<td>32</td>
</tr>
<tr>
<td>Engineering &amp; PhySci</td>
<td>0</td>
<td>16</td>
</tr>
<tr>
<td>Software/IT</td>
<td>4</td>
<td>36</td>
</tr>
<tr>
<td>Med Device</td>
<td>4</td>
<td>26</td>
</tr>
<tr>
<td>Energy &amp; Env</td>
<td>2</td>
<td>16</td>
</tr>
<tr>
<td>Food/Agriculture</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>13</strong></td>
<td><strong>132</strong></td>
</tr>
</tbody>
</table>

Technology Commercialization Venture Center

Entrepreneurship Programs
MN-REACH

The University is one of only three institutions with a National Institutes of Health Research Evaluation and Commercialization Hub (REACH) grant. When combined with University matching funds, these grants make a total of $6 million available to support coaching, external consulting, and funding selected teams over three years. MN-REACH provides University-wide commercial expertise and resources to help develop and commercialize diagnostics, therapeutics, preventative medicine, and medical devices. Now in the middle of its third year of operation, the program has provided coaching for more than 75 faculty teams; provided skills development offerings for more than 200 faculty, post-docs, and graduate students; and awarded grants totaling $3.7 million to 41 promising projects addressing 35 unique, unmet clinical needs.

MIN-Corps

MIN-Corps is the University’s site for the National Innovation Corps (I-Corps), a National Science Foundation initiative to that prepares scientists and engineers to extend their focus beyond the university laboratory, and accelerates the economic and societal benefits of research projects through commercialization. University teams receive micro-grants to fund initial prototyping and customer research as part of an educational program in which innovation teams composed of STEM students, staff, and faculty are paired with industry mentors to conduct customer outreach and develop a sustainable business model. In addition, MIN-Corps delivers commercialization seminars to faculty and students to promote the University’s entrepreneurial culture. About 700 faculty, staff, and students attended one or more MIN-Corps offerings throughout the year.

Capacity Building Programs

The following grant programs are open to all campuses and are supported by funds from a variety of sources, including technology commercialization revenue. Funding programs like MnDRIVE, Grand Challenges Research and OVPR Research Advancement are designed to support and nurture a diverse research portfolio with investments aimed at growth and innovation.

Minnesota’s Discovery, Research, and InnoVation Economy (MnDRIVE)

The State of Minnesota’s landmark annual investment, partnering university researchers and state industries to enhance quality of life and economic vitality in Minnesota and beyond
MnDRIVE is a partnership between the University and the State of Minnesota that aligns areas of University strength with the state’s key and emerging industries to produce breakthrough research that addresses our state and society’s greatest challenges. Starting in 2013, $18 million in state funding was authorized each year for research across the four MnDRIVE research areas: Robotics; Global Food; Environment; and Brain Conditions. In its 2017 session, the Minnesota Legislature passed additional funding ($4 million annually) for a MnDRIVE cancer initiative, Cancer Clinical Trials. MnDRIVE support has catalyzed projects involving over 1,200 researchers across three campuses (Twin Cities, Duluth, and Morris), including more than 100 departments within dozens of colleges.

With these funds and others leveraged, the five MnDRIVE areas have hired nearly 800 people, including 35 new faculty, who in turn are responsible for 193 hires, which include lab technicians, graduate students, undergraduate researchers, and post-doctoral fellows.

During FY2018, researchers involved in MnDRIVE work disclosed 74 inventions for patents or licensing and have received more than $55 million in funding from external sources such as the National Institutes of Health, Medtronic, MN Soybean Research & Promotion Council, and Bluebird Bio.

MnDRIVE support allowed the University to launch the Minnesota Cancer Clinical Trials Network (MNCCTN) in April 2018, which has as its goal to improve prevention, treatment and survivorship for all Minnesotans through greater access to cancer clinical trials.

MNCCTN is a collaboration between the Masonic Cancer Center, Essentia Health Community Oncology Research Program, Fairview Health Services, The Hormel Institute, Mayo Clinic Cancer Center, Metro-Minnesota Community Oncology Research Consortium, and Sanford Community Oncology Program of the North Central Plains. In all, there are 18 planned locations across Minnesota that will participate in MNCCTN cancer clinical trials in the first year of the program, with additional sites across the state to be added in the subsequent years.

MNCCTN’s trials will originate from Minnesota’s two NIH-Designated Comprehensive Cancer Centers, the University’s Masonic Cancer Center and Mayo Clinic Cancer Center, along with the University’s Hormel Institute in Austin.

**University Grand Challenges Research**

The aim of “grand challenges research” is to marshal the University’s exceptional strengths to address society’s most difficult and pressing problems. This is part of the vision to enhance ambitious transdisciplinary research and expand collaborations for greater impact that is emphasized in the UMTC *Driving Tomorrow* strategic plan. Through the Provost’s Grand Challenges Research Initiative, the University is implementing new strategies to engage interdisciplinary teams of faculty, students, and community partners in collaborative research addressing the most significant problems of Minnesota and the
world. An overarching goal is to build new institutional pathways and mechanisms for transdisciplinary research, deepening engagement with communities and leading to innovative solutions. Ongoing support for ambitious, high-impact research also ensures that the University brings attracts and retains the best and most productive researchers and scholars across fields of study.

The University has made internal investments to seed and foster high-potential collaborations in five grand challenges areas of special. All grand challenge collaborations build on the expertise and strengths of faculty across the campus in both interdisciplinary and disciplinary research, as well as in teaching excellence and in outreach and public engagement. These strategies intersect with a variety of other significant initiatives aligning University strengths with opportunities and needs, including the MnDRIVE initiative and University-wide centers such as the Institute on the Environment and the Institute for Advanced Study.

**OVPR Research Advancement Programs**

Over the past five years, several Research Advancement funding programs administered by OVPR have provided more than $25.1 million ($34.3 million with matching funds) to researchers.

**Grant-in-Aid**

The Grant-in-Aid of Research, Artistry, and Scholarship Program provides grants to support scholarly and artistic activities of faculty and their graduate students to foster excellence throughout the University. Grant-in-Aid (GIA) projects represent the breadth and depth of University research in all disciplines and fields. While any faculty can apply for GIA funding, it plays an especially important role by providing new professors and emerging researchers with opportunities to pursue research and scholarship that may not yet have received external funding. In the past five years, $13.5 million has been awarded through the GIA program. **For every dollar invested, $4.30 in external funding was generated in fiscal years 2012–2016.**

**Grant Match**

Some external funders require an institution to match funds to a specific grant activity. As grant processes become more competitive and federal funds stay relatively flat, the demand for such institutional matching funds continues to increase, resulting in higher levels of required institutional investment. The University works in partnership with colleges throughout the grant proposal process to coordinate the University’s total commitment in matching funds, which averages about $2 million annually.

**Minnesota Futures**
The Minnesota Futures program supports extraordinary research by nurturing interdisciplinary ideas. In 2018, two grants were awarded for a total of $499,367. They are supported by technology commercialization revenue and fund research opportunities that cross disciplinary and professional boundaries and support in-depth research that aims to address society's grand challenges. Since 2008, Minnesota Futures grants have supported research by faculty who go on to win substantial grants and whose innovations reach the market to potentially improve the lives of millions. **For every dollar invested, $3.13 in external funding was generated in fiscal years 2011–2015.**

The 2018 Minnesota Futures grants went to two projects: Effect of the Microbiome Upon Deer Tick Range Expansion in the Upper Midwest, which will study the environment’s impact on the spread of deer ticks, and Coordinated 3D Marker-Less Pose Estimation and Neural Measurements from Freely Moving Rhesus Macaques, which seeks to improve methods for researching brain activity.

**Research Infrastructure Investment Program**

The Research Infrastructure Investment Program is one way the University ensures it maintains robust, state-of-the-art equipment to support research and academic endeavors, even as the future federal funding remains uncertain. These improvements to research infrastructure are key to catalyzing research and innovation, and support the University’s talented researchers as they explore new ideas, form interdisciplinary partnerships, and make groundbreaking discoveries. **In 2018, over $2.5 million was awarded to 19 research projects, reaching 17 departments, units, and centers, eight colleges, and three campuses (UMN, UMD, UMM).** Supporting colleges or centers provide one-to-one matching funds for each award. Awards support research infrastructure, facilities, and support services over a variety of University research areas, including bioprinting, obesity prevention, pharmacology, child development, clinical research, and genomics.

**Increasing Informatics Capabilities**

The University established Research Computing to consolidate management of services provided by the Minnesota Supercomputing Institute, the University of Minnesota Informatics Institute, and U-Spatial. These three units offer customized resources for computer- and data-intensive research to the University research community.

The Minnesota Supercomputing Institute (MSI) is a nexus for leading-edge research in scientific computing, for fostering interdisciplinary research on campus, and for enabling public-private collaborations. With over 850 research groups and over 4,500 users, MSI enables high-impact research across the life, health, and social sciences and the high-performance computing tasks common to the engineering and physical sciences. In addition to acquiring and managing high-end hardware resources, MSI works closely with
numerous research groups on campus to develop tools and platforms designed to securely ingest, manage, analyze, and share data to foster public-private research collaborations in the agricultural and biomedical sectors.

The University of Minnesota Informatics Institute (UMII) was founded in 2014 to foster and accelerate research across the University system in agriculture, arts, design, engineering, environment, health, humanities, and social sciences through informatics services, competitive grants, and consultation. UMII’s analysts work at the interface of core facilities and researchers to add value to the data through analysis. UMII funding supports undergraduate research through the Undergraduate Research Opportunities Program and provides graduate fellowships for MnDRIVE-related research with a strong informatics component. One recent project aims to improve plant breeding at the intersection of genomic, phenotypic, and environmental informatics.

U-Spatial collaborates with departments and centers across the University to serve a fast-growing need for expertise in Geographic Information Systems (GIS), remote sensing, and spatial computing by providing consulting and training to students, faculty and staff. Three examples include collaborating with the Global Transit Innovations to map transit availability across the globe; developing the data infrastructure for a NSF-funded project looking at sustainable, healthy cities; and providing spatial analysis of wheat rust in Israel for researchers in Plant Pathology.

**Research Strategic Priorities**

The University values “the pursuit of understanding and the search for truth” across its diverse research portfolio. The research talent among faculty, students, and staff achieves local, national, and global impact through research in many areas of importance and is its most valuable asset. This talent enables the University to successfully step into solving problems or addressing societal needs rapidly, whether it is bird flu or the opioid crisis or the achievement gap.

To ensure that the University’s research talent has been properly leveraged to meet Minnesota’s needs, the University began a systemwide strategic planning process in June 2017, and a limited number of strategic priorities were adopted by the administration and the board in September 2018.

The research-related objective focuses on the economic impact of research in the state of Minnesota and identifies a small number of research priorities among the many research areas at the University. The systemwide strategy is called *Amplify Research to Address Core & Emerging Needs in Minnesota*, and it builds on the highly successful MnDRIVE program where research in the current MnDRIVE priority areas (Robotics, Global Food, Environment, Brain Conditions, and Cancer Clinical Trials) targets issues to enhance the quality of life and economic vitality in Minnesota and beyond.
The framework developed for MnDRIVE is expected to be expanded to research in the emerging research priorities, including opioid addiction, aging, medical devices and systems, renewable energy and sustainability, data analytics, and social disparity. The MnDRIVE framework, when applied to areas of emerging University strengths and high public interest, will continue to connect innovative research and discovery to outcomes of importance to the people and the economy of Minnesota.

In addition, the current and emerging MnDRIVE priority areas will engage the research community across all five campuses and will create a collaborative culture that sustains and nourishes diverse field shapers and reduces barriers to success. To fully reap the societal benefits of the research, the University will explicitly engage the social sciences, arts, and humanities.

Initiatives will include:

1. Grow the MnDRIVE program beyond current priority areas to address state legislative priorities such as aging and opioid addiction.
2. Engage the social sciences, arts, and humanities to enhance current and emerging MnDRIVE priority outcomes.
3. Support interdisciplinary research teams that tackle urgent social issues including educational opportunity gaps, food security, homelessness, and immigration.
Conclusion

University of Minnesota researchers successfully competed for a record $793 million in external research funding in FY2018, the highest amount received any year to date when one-time federal economic stimulus dollars are excluded. The total is a 6.5 percent increase over last year’s award amounts, with increases in federal and state awards helping to boost it.

More than half of all FY2018 research awards were to the Medical School and other health science schools and units. The renewal of the University’s clinical and translational research center by NIH and our new agreement with Fairview also augurs well for future research success.

The University of Minnesota remains a leading American research university, ranked among the top ten of public universities nationwide. The University’s Twin Cities campus expended $922 million on research, placing it ninth among public research universities in the NSF-HERD Survey. When combined, all five University of Minnesota campuses had research expenditures of $948 million—nearly a billion dollars.

And University of Minnesota Technology Commercialization signed a record 230 new licensing deals and 86 new Minnesota Innovation Partnership agreements during fiscal 2018, and now holds a total of more than 900 issued patents and 1,800 active licenses. They also spun off 13 startup companies, and 27 others are still moving through the University’s startup pipeline.

The University’s progress derives entirely from the energy and ingenuity of our talented research faculty, staff, and students, who together embody the University’s Driven to Discover spirit of inquiry. Our role in OVPR is to facilitate partnership, discovery, and integrity across the U’s research enterprise.

In the coming months, as the University welcomes a new president, OVPR will continue to publicize the institution’s research accomplishments and to highlight how the tightly intertwined research and education parts of mission make it uniquely important to the State of Minnesota.
Abbreviations

College and Campus: CFANS for College of Food, Agricultural and Natural Resource Sciences; CEHD for College of Education and Human Development; CBS for College of Biological Sciences; CLA for College of Liberal Arts; UMC for Crookston campus; UMM for Morris campus; UMR for Rochester campus; and CSE for College of Science and Engineering.


MnDRIVE: Minnesota’s Discovery, Research, and InnoVation Economy
MN-IP: Minnesota Innovation Partnerships
RESEARCH STATISTICS

AWARDS BY SOURCE FY2018

<table>
<thead>
<tr>
<th>Source</th>
<th>Amount (Millions)</th>
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<td>NIH</td>
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<tr>
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<td>DOEd</td>
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<tr>
<td>Other Federal</td>
<td>$24.9</td>
</tr>
<tr>
<td>Federal agencies</td>
<td>$793M</td>
</tr>
</tbody>
</table>

6.5% over previous year

Federal agencies: DHHS: Dept. of Health and Human Services • DOEd: Department of Education • DOE: Dept. of Energy
NIH: National Institutes of Health • NSF: National Science Foundation • USDA: US Department of Agriculture
Dollar amounts shown in millions
AWARDS BY SOURCE FY2018: FEDERAL

Federal $494.5M (62%)

All other sources $298.5M (38%)

$793M
IMPACT OF FEDERAL SHUTDOWN

Shutdown federal sources in red
Sources in orange partially shutdown

Dollar amounts shown in millions

$793M

DOE $21.9
DOEd $14.5
NIH $265.5
State & Local $90.3
Business & Industry $64.1
Other Private $44.1
Other DHHS $28.8
Foundations $27.6
DOD $26.2
Other Federal $24.9

USDA $32.1
NSF $80.6
Universities & Colleges $72.5
AWARDS BY SOURCE FY2018

DOE $21.9
DOEd $14.5
Other Federal $24.9
DOD $26.2
Foundations $27.6
Other DHHS $28.8
USDA $32.1
Other Private $44.1
Business & Industry $64.1
Universities & Colleges $72.5
NSF $80.6
State & Local $90.3
NIH $265.5
$793M

DOE: Department of Energy
Dollar amounts shown in millions
With a $2.6 million grant from the US Department of Energy's (DOE) ARPA-E agency, the U of M is leading a project to develop a small-scale ammonia synthesis system using water and air, powered by wind energy. Stored ammonia can be used for fertilizer, fuel, and as energy for an electrical grid, creating a renewable and local source of energy for farms and other businesses. The U of M's West Central Research and Outreach Center (WCROC) in Morris, MN serves as a demonstration site, and the research builds on earlier work funded by the University and by the state's Environment and Natural Resources Trust Fund, administered through the Legislative-Citizen Commission on Minnesota Resources (LCCMR).

Lead researchers: Alon McCormick and Ed Cussler Jr., Chemical Engineering and Materials Science (CEMS), College of Science and Engineering, with Paul Dauenhauer and Prodromos Daoutidis (also CEMS), Mike Reese (WCROC, College of Food, Agricultural, and Natural Resource Sciences), and collaborators at Proton OnSite (Connecticut) and the National Renewable Energy Laboratory (NREL).
AWARDS BY MAJOR SOURCE FY2009-FY2018

Dollar amounts shown in millions
Chart excludes funds from ARRA, the 2009 federal fiscal stimulus bill
## NATIONAL RANKINGS

**CMUP: Center for Measuring University Performance • ARWU: Academic Ranking of World Universities**

Dollar amounts shown in thousands

### NATIONAL & GLOBAL ANALYSIS

<table>
<thead>
<tr>
<th></th>
<th>NSF / HERD 2017</th>
<th>CMUP 2017</th>
<th>ARWU (Shanghai) 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Public</td>
<td>Expenditures</td>
<td>Public</td>
</tr>
<tr>
<td>Michigan</td>
<td>1</td>
<td>$1,530,139</td>
<td>9 of 9</td>
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<tr>
<td>Wisconsin</td>
<td>4</td>
<td>$1,193,413</td>
<td>9 of 9</td>
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<tr>
<td><strong>MINNESOTA - TWIN CITIES</strong></td>
<td><strong>9</strong></td>
<td><strong>$921,681</strong></td>
<td><strong>9 of 9</strong></td>
</tr>
<tr>
<td>Ohio State</td>
<td>12</td>
<td>$864,327</td>
<td>9 of 9</td>
</tr>
<tr>
<td>Penn State</td>
<td>13</td>
<td>$854,815</td>
<td>6 of 9</td>
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<tr>
<td>Michigan State</td>
<td>18</td>
<td>$694,917</td>
<td>5 of 9</td>
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<tr>
<td>Illinois</td>
<td>21</td>
<td>$642,084</td>
<td>8 of 9</td>
</tr>
</tbody>
</table>

**All UMN campuses: $948M**

---

CMUP: Center for Measuring University Performance • ARWU: Academic Ranking of World Universities

Dollar amounts shown in thousands
AWARDS BY SOURCE FY2018

DOEd $14.5
NIH $265.5
$793M

DOE $21.9
DOD $26.2
Other Federal $24.9
Foundations $27.6
Other DHHS $28.8
USDA $32.1
Other Private $44.1
Business & Industry $64.1
Universities & Colleges $72.5
State & Local $90.3
NSF $80.6

DOEd: Department of Education
Dollar amounts shown in millions
SUPPORTING TEACHERS WITH RESEARCH BASED INTERVENTIONS

U of M researchers, along with colleagues from the University of Washington, received two grants from the federal Institute of Education Sciences (IES) to develop and evaluate teacher intervention methods: a $1.4 million three-year project to help elementary educators to adopt and deliver evidence-based classroom practices (EBPs) to better meet the social, emotional, and behavioral needs of students; and a four-year, $1.4 million project to pilot test a dropout prevention strategy for 9th grade students as they transition into high school.

Lead researcher: Clayton Cook, Educational Psychology, College of Education and Human Development
TECHNOLOGY COMMERCIALIZATION & BUSINESS PARTNERSHIPS
# UNIVERSITY OF MINNESOTA STARTUP ACTIVITY

## Startups by Sector

<table>
<thead>
<tr>
<th>Sector</th>
<th>FY18</th>
<th>FY06–FY18</th>
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<tbody>
<tr>
<td>Bio/Pharma</td>
<td>2</td>
<td>32</td>
</tr>
<tr>
<td>Engineering &amp; PhySci</td>
<td>0</td>
<td>16</td>
</tr>
<tr>
<td>Software/IT</td>
<td>4</td>
<td>36</td>
</tr>
<tr>
<td>Med Device</td>
<td>4</td>
<td>26</td>
</tr>
<tr>
<td>Energy &amp; Env</td>
<td>2</td>
<td>16</td>
</tr>
<tr>
<td>Food/Agriculture</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>13</strong></td>
<td><strong>132</strong></td>
</tr>
</tbody>
</table>

### Pie Chart

- Bio/Pharma: 26%
- Engineering: 13%
- Energy: 11%
- Med Device: 19%
- Software/IT: 27%
- Food/Ag: 4%
- Minnesota: 8
- Outside Minnesota: 5
- Total: 13
AWARDS BY SOURCE FY2018

$793M

NIH $265.5
DOE $21.9
DOEd $14.5
DOD $26.2
Other Federal $24.9
Foundations $27.6
Other DHHS $28.8
USDA $32.1
Other Private $44.1
Business & Industry $64.1
Universities & Colleges $72.5
NSF $80.6
State & Local $90.3

NIH: National Institutes of Health
Dollar amounts shown in millions
U STARTUP COREBIOME ACQUIRED BY ORASURE

CoreBiome Inc., which uses University-developed technology to analyze communities of microbes for human health, agricultural, and environmental applications, was purchased in January 2019 by Pennsylvania-based OraSure Technologies Inc., a developer, manufacturer, and distributor of devices that detect or diagnose critical medical conditions. Launched in May 2017 with support from the Discovery Capital Investment Program, CoreBiome is the fourth University startup to be acquired or go public in the last 18 months.

Lead researchers: Dan Knights, Computer Science and Engineering, College of Science and Engineering and BioTechnology Institute, and Kenneth Beckman and Daryl Gohl, University of Minnesota Genomics Center
### TECHNOLOGY COMMERCIALIZATION

<table>
<thead>
<tr>
<th>Category</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
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</thead>
<tbody>
<tr>
<td>New Licenses*</td>
<td>154</td>
<td>268</td>
<td>194</td>
<td>213</td>
<td>230</td>
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<tr>
<td>Current Revenue Generating Agreements*</td>
<td>429</td>
<td>544</td>
<td>528</td>
<td>545</td>
<td>575</td>
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<tr>
<td>Gross Revenues</td>
<td>$27.4</td>
<td>$20.2</td>
<td>$46.9</td>
<td>$22.6</td>
<td>$16.1</td>
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<tr>
<td>Issued Patents (US and Foreign)</td>
<td>104</td>
<td>136</td>
<td>168</td>
<td>147</td>
<td>186</td>
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<tr>
<td>MN-IP Research Agreements</td>
<td>51</td>
<td>69</td>
<td>81</td>
<td>72</td>
<td>86</td>
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<tr>
<td>Companies W/ MN-IP Research Agreements</td>
<td>44</td>
<td>54</td>
<td>62</td>
<td>51</td>
<td>58</td>
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<tr>
<td>Sponsored Research Commitments</td>
<td>$4.3</td>
<td>$10.8</td>
<td>$12.2</td>
<td>$20.9</td>
<td>$21.3</td>
</tr>
<tr>
<td>Startup Companies</td>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>13</td>
</tr>
</tbody>
</table>

Dollar amounts shown in millions
* Updated in FY2014 to include express licenses with revenue greater than $1,000; FY2015 includes 94 licenses for FAST technology, spun out that year as FastBridge Learning.
AWARDS BY SOURCE FY2018

Dollar amounts shown in millions

- Business & Industry $64.1
- NIH $265.5
- USDA $32.1
- Other DHHS $28.8
- Foundations $27.6
- Other Federal $24.9
- DOD $26.2
- DOE $21.9
- DOEd $14.5
- NSF $80.6
- State & Local $90.3
- Universities & Colleges $72.5
- Other Private $44.1

Total $793M
FINDING NEW THERAPIES FOR ALCOHOL USE DISORDER

U of M researchers are working with Mitsubishi Tanabe Pharma to better understand the changes in neural circuits that underlie persistent alcohol-induced changes in behavior. The project combines an animal model with sophisticated whole-brain fMRI to create a baseline of knowledge of how brain cell dynamics change during specific phases of addiction. Understanding these changes will provide new targets for therapeutic intervention and a means to evaluate whether these targets are engaged by new pharmacotherapies.

Lead researcher: Mark Thomas, Neuroscience, Medical School
CAPACITY BUILDING
A universitywide team of data experts are tackling the challenges of mounting data storage needs across the U. Data-intensive research practices, such as DNA sequencing, high-resolution imaging, and supercomputing, while critical for advancing cutting-edge research, will likely more than double the U's data storage needs from 2016 to 2019. The University Storage Council, including experts across the system campuses, the Office of Information Technology, OVPR, and the University Libraries, aims to better coordinate and allocate data to improve the experience for researchers seeking reliable storage and make data storage more efficient and cost effective.

Leadership: University Storage Council
RESEARCH STRATEGIC PRIORITIES
RESEARCH STRATEGIC PRIORITIES

Enhance Research Excellence

Promote and Sustain Research Integrity

Accelerate the Transfer of Knowledge for the Public Good
DATA SOURCES

AWARDS BY SOURCE
OVPR Research Data Services

TECHNOLOGY COMMERCIALIZATION
Technology Commercialization InfoEd System
U of M Enterprise Financial System

NATIONAL RANKINGS
National Science Foundation (nsf.gov/statistics/srvyherd/)
Center for Measuring University Performance (mup.asu.edu)

Note: Rankings are based on nine measures: Total Research, Federal Research, Endowment Assets, Annual Giving, National Academy Members, Faculty Awards, Doctorates Granted, Postdoctoral Appointees and SAT/ACT range.

Academic Ranking of World Universities (shanghairanking.com)

Note: Rankings are determined by several indicators, including alumni and staff winning Nobel Prizes and Fields Medals, highly cited researchers, papers published in Nature and Science, papers indexed in major citation indices, and the per capita academic performance of an institution.

PHOTOS
University of Minnesota
iStock
AGENDA ITEM: Appointments to the University of Minnesota Health Clinics and Surgery Center, Inc. Board of Directors

☐ Review  X  Review + Action  ☐ Action  ☐ Discussion

☐ This is a report required by Board policy.

PRESENTERS: President Eric W. Kaler

PURPOSE & KEY POINTS

The purpose of this item is to act on appointments to the University of Minnesota Health Clinics and Surgery Center, Inc. Board of Directors.

The President recommends appointment of the following individuals to serve a three-year term:

- **Badrinath Konety, MD, MBA (1st term)** – Konety serves as CEO of University of Minnesota Physicians (UMP) as well as Vice Dean for Clinical Affairs at the University of Minnesota Medical School. He is also a professor in the Department of Urology and Director of the Institute for Prostate and Urologic Cancers. Konety is a fellow of the American College of Surgeons and the American Urologic Association and serves as secretary/treasurer of the Societe Internationale d’Urologie (US Section). He has been awarded a number of grants from the DOD, NCI, ACS and CDC.

  A board-certified urologist and recognized expert on prostate and bladder cancer, Konety graduated from M.S. Ramaiah Medical College of Bangalore University in India before relocating to the United States for a research fellowship at the Veterans Administration Medical Center/University of California San Francisco. He completed his residency at the University of Pittsburgh, after which he completed a fellowship at the University of Pittsburgh Cancer Institute. Konety also completed a fellowship in urologic oncology at the Memorial Sloan Kettering Cancer Center, serving as Chief Clinical Fellow. He received his MBA from the Katz Graduate School of Business at the University of Pittsburgh. He was Assistant Professor of Urology and Chief of Urology at the University of Iowa and Associate Professor and Vice-Chair of the Department of Urology at the University of California San Francisco prior to joining the University of Minnesota.

- **Pete Mitsch, CPA (1st term)** – Mitsch is the CFO of University of Minnesota Physicians (UMP) and the University of Minnesota Medical School. He has served the Medical School for 28 years, first in the Department of Medicine and then in the Dean's Office. Mitsch became CFO of UMP as a result of the alignment between the Medical School and UMP in 2017. Before working at the
University, he spent 12 years in various audit roles with Deloitte & Touche. Mitsch is a CPA and holds a bachelor's degree in business administration from the University of St. Thomas.

PRESIDENT'S RECOMMENDATION

The President recommends approval of the appointments to the University of Minnesota Health Clinics and Surgery Center, Inc. Board of Directors.
January 31, 2019

President Eric W. Kaler
University of Minnesota
202 Morrill Hall
100 Church Street
Minneapolis, MN 55455

Dear President Kaler,

The Medical School and UMPPhysicians have entered into our new partnership with Fairview Health Services. Part of this agreement retains the Clinics and Surgery Center (CSC) as a separate legal joint venture (University of Minnesota Health Clinics and Surgery Center, Inc.) between Fairview and UMPPhysicians that will continue to be operated and managed by UMPPhysicians and report into the Joint Clinical Enterprise for the ambulatory surgery center and free-standing clinic services provided at the CSC. As stated in the joint venture agreement, the CSC retains a separate governing board.

An important step in our implementation of the M Health Fairview Joint Clinical Enterprise is to repopulate the Board of Directors of the CSC, which was previously comprised of the same persons who served on the old M Health Board, for this important University, UMPPhysicians and JCE asset. The Board will be chaired by the Dean of the Medical School and include 4 members from FHS, 1 additional member appointed by the Dean and 2 appointed by UMPPhysicians.

The Board’s specific responsibilities will be to: serve as a management forum to resolve operational challenges; serve as the credentialing body for the Ambulatory Surgery Center within the CSC; review the annual budget and provide financial oversight for the CSC; review policies and procedures for the CSC; and set strategic direction for the CSC in alignment with the strategy for the JCE.

In accordance with the CSC governing documents, I am submitting the UMPPhysicians recommendations for membership on the CSC Board of Directors for BoR consultation.
1/31/2019

Page 2

UMPhysicians proposes to include:

- Badrinath Konety, MD, MBA
  CEO, UMPhysicians, Vice Dean for Clinical Affairs, Medical School
- Pete Mitsch
  CFO, UMPhysicians and Medical School

Thank you for your consideration. Please let me know if you or the Board of Regents require any additional information.

Sincerely yours,

[Signature]

Badrinath R. Konety, MD, MBA
Professor & Dougherty Family Chair in Uro-Oncology
CEO, UMPhysicians
Vice Dean of Clinical Affairs, Medical School

Cc: Jakub Tolar, Dean of the Medical School, Vice President for Clinical Affairs
AGENDA ITEM: Resolution to Conduct Non-Public Meeting of the Board Pursuant to Minnesota Statutes Section 13D.05, subdivision 3(c)(3)

☐ Review  ☑ Review + Action  ☐ Action  ☐ Discussion

☐ This is a report required by Board policy.

PRESENTERS: Eric W. Kaler, President

PURPOSE & KEY POINTS

To consider a resolution to conduct a non-public meeting of the Board of Regents to develop or consider offers or counteroffers for the purchase, sale, or other transactions related to real property on the east bank of the Minneapolis campus.

Context for these potential transactions is reflected in the supplemental slides available in the docket.

PRESIDENT’S RECOMMENDATION

The President recommends approval of the Resolution to Conduct a Non-Public Meeting of the Board of Regents.
REGENTS OF THE UNIVERSITY OF MINNESOTA

RESOLUTION RELATED TO

Conduct Non-Public Meeting of the Board of Regents
to Develop or Consider Offers for the Purchase or Sale of Real Property

WHEREAS, based on advice of the General Counsel, the Board of Regents has balanced the purposes served by the Open Meeting Law and determined that there is a need to review confidential or protected nonpublic real estate data involving the University of Minnesota.

NOW, THEREFORE, BE IT RESOLVED, that in accordance with Minn. Stat. § 13D.01, Subd. 3 and 13D.05 Subd. 3(c), a non-public meeting of the Board of Regents be held on Friday, February 8, 2019, in the Boardroom, 600 McNamara Alumni Center, for the purpose of developing or considering offers or counteroffers for the purchase, or other transactions related to the following real property:

- Property at approximately 2324 University Avenue SE
- Property at approximately 2218 University Avenue SE
- Property at approximately 2030 University Avenue SE
Supplemental Background Information
University Planning Context
Development Framework (2016)

- Advance Outreach Mission
- Reinvest in the Campus Core
- Reinforce the Transit Corridor
- Engage the River
- Integrate Campus and Community Edges
ADVANCE OUTREACH MISSION

- Prioritize human scale medium-density development.
- Improve the pedestrian experience.
- Connect the AHC and the BDD.
- Locate clinical facilities and potential new hospital.
- Acquire land strategically.

INTEGRATE CAMPUS AND COMMUNITY EDGES

- Participate in efforts in joint planning areas.
- Define land use patterns and density in context.
- Determine new build sites and decommission/demolition candidates.
- Improve safe routes to and through campus.
Current State Land Ownership in East Bank Planning Area
Why is this the right initiative right now?
Our competition is focused on place, and they...

- know talent, partners, and patients can choose to go elsewhere
- use partnerships to leverage expertise, network, and resources
- know the same investment in place supports and attracts all audiences
What are our Hurdles?

- Limited contiguous land for future campus
- Perception of bad traffic, parking, access
- Market perception as U-only and student-only place results in limited services and poor neighborhood environment for faculty, researchers, employees, patients, and families (it needs to be more than undergraduate housing and fast food);
- Lack of area vibrancy and year round activity = less safety for all
- Quickly advancing peer environments (we’re falling behind our competition – and they are recruiting our talent)
- Limited public resources
Uncoordinated activity does not produce optimal results

- Hodgepodge, no presence
- Non-supportive uses targeting key parcels
- Poor public realm treatment and connectivity
- Inability to solve area-wide challenges
- Limited/no space for broader key University stakeholders
A Coordinated Vision Competes Globally

**Spaces**
- corporate users, entrepreneurs, collaborators

**Places**
- vibrant, connected, interactive, planned/spontaneous, safety

**Lifestyle**
- parks and open spaces, housing, transit/access, culture, medical, life-long learning
What does the State need from the University?
What is the Broad University Development Goal?
Making the People and Economy of MN Healthy, by:
- Building a World Class Health Care System
- Creating an Innovation Hub for Solving Global Grand Challenges

What is Needed to Deliver Both CriticalNeeds?
• Industry-leading facilities and equipment
• Inter-Disciplinary and Multi-Sector Collaboration
• A Safe and Compelling Neighborhood
Creating an Innovation Hub for Solving Global Grand Challenges

New DEED Commissioner calls for Centralized Technology Hub

• ... while Minnesota’s present-day tech ecosystem is growing, it is disparate between industries and geographies.

• In contrast, Chicago has been smart to create a centralized technology hub ... that brings together startup accelerators, corporations, universities and tech talent schools all under one roof to innovate together...
Building a World Class Health Care System

• Stage has been set for growth of partnership

• Need to plan for space, infrastructure, and adjacencies for success of a world class clinical campus

• Note: CSC is a joint venture between UMP and Fairview using U debt and land.
Key Land Control for U Mission

• Key properties in proposed Clinical Sciences District have donor restrictions.

• Without addressing these restrictions, this Clinical District is not possible as planned.

• Private properties currently would either prevent or impact optimal University development (increasing cost and/or restricting best program option)
Why do we need others’ partnership?
How do we leverage strengths?
Leveraging Expertise and Resources

- Larger area issues can only be solved holistically, not property-by-property
- Common goal of integrated development
- Shared assumptions about growth and development
- Planning for infrastructure investments over a long term horizon
- Guide private investments to achieve area outcomes
- Greater access to capital
- Greater network of expertise and tenancy
Purpose of Partnerships

• Relates directly to the University’s mission, operations, or key strategic goals
• Designed to leverage the skills and assets of each party to deliver the service, activity, or facility
• Provide for an appropriate sharing of risk and rewards
• Protect the University’s legal, financial, and reputational risk including real or potential impacts to the University’s credit
Public-Private Partnerships: Definition

• A contractual agreement between UMN and a non-governmental entity to support a mission-related purpose or to support ongoing operations

• Differs from the purchase of goods and/or services or from privatization in that the University retains a defined role in all or some aspect of the following:
  1) ownership
  2) regulation
  3) remediation on non-performance
# Leveraging Strengths

<table>
<thead>
<tr>
<th>University</th>
<th>Foundation</th>
<th>Others</th>
</tr>
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<tbody>
<tr>
<td>Mission focus</td>
<td>Focus is long-term, support of the University mission</td>
<td>Private resources</td>
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<tr>
<td>Long-term ownership and continuity</td>
<td>Non-public funding for key initiatives</td>
<td>Individual property focus</td>
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<tr>
<td>Non-profit status, State support, tax-exempt</td>
<td>Expert and nimble, flexibility</td>
<td>Brings expertise, network</td>
</tr>
<tr>
<td>Key decisions for its own real estate</td>
<td>Connections with private sector</td>
<td>Nimble and execution-oriented</td>
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<tr>
<td></td>
<td></td>
<td>Short to mid-term horizon</td>
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</table>
Current Development Partnerships

University of Minnesota Foundation
Mission: To connect passion with possibility, inspire generosity, and support greatness at the University of Minnesota; Exempt Purpose: Support University.
501(c)3 with 45 Member Board of Trustees, including:
• 12 (1/4) Regent Appointed including
  • up to 3 Regents
  • University President

Philanthropy
(Foundation and U-Wide development community)

Endowment Management
(UMF Investment Advisors – subsidiary)

Place-based Campus
(UMF Real Estate Advisors – subsidiary)
• Placemaking for surrounding community
• Managing: Affordable student housing
• Advising: Market expertise

Board of Regents
Academic, Research, Outreach

Marquette Cos. (Pohlad)

49%

2407 Joint Venture
Days Hotel site redevelopment
51%

Endowments

Visus Group
Project Master Plan
and sidewalk level experience
50%

U-Marq LLC

United Properties
2407 Joint Venture
Days Hotel site redevelopment
51%
What’s in it for the University?
A prominent and intentional campus edge

• A vibrant and attractive place where learning, culture, employment, and living options mix.
• Innovation hub connecting to BDD and the clinical campus
• Influence over development on campus border
• Ability to create a prominent gateway to/from campus
• Aligning land ownership to enable efficient development, addressing donor intent.
• Plans for M Health clinical campus along Huron Boulevard
• Solve CSC area traffic/access issues
Area uses

- TCF Stadium
- Washington Ave
- Delaware St
- Proposed 2515 LLC
- 2407 JV
- University Ave
- CSC

Legend:
- Area
- Joint Planning Area
- Clinical Campus Plan
- Project Area
- Future Discussion
# Potential Development Program Capacity

## Today (GSF)
- Public Realm: 7 Acres, 125,700 (4%)
- Active Ground Floor: 125,700 (4%)
- Office (corporate & entrepreneurs): 0 (0%)
- Residential: 865,000 (25%)
- Hotel/Hospitality: 58,500 (2%)
- Institutional: 192,500 (6%)
- Medical/Health Sciences: 354,500 (10%)
- Parking/Infrastructure: 1,850,000 (53%)
- Total GSF: 2.4 M

## Future (GSF)
- Public Realm: 25 Acres, 513,300 (5%)
- Active Ground Floor: 513,300 (5%)
- Office (corporate & entrepreneurs): 1,400,000 (14%)
- Residential: 1,400,000 (14%)
- Hotel/Hospitality: 250,000 (3%)
- Institutional: 500,000 (5%)
- Medical/Health Sciences: 2,800,000 (29%)
- Parking/Infrastructure: 3,142,000 (30%)
- Total GSF: 10.0 M
Program Planning Area for East Gateway

Potential Development Program Capacity

Today (GSF)
Focus = undergrad housing
Minimal office
Underutilized open space
TOTAL GSF 2.4M

Future (GSF)
World class clinical campus
Innovation spaces
Connected and active public realm
TOTAL GSF 10.0M

- Public Realm
- Active Ground Floor
- Office (corporate & entrepreneurs)
- Residential
- Hotel/Hospitality
- Institutional
- Medical/Health Sciences
- Parking/Infrastructure
Governance Summaries
U of Minnesota Foundation Board of Trustees

Officers
• Lynn Casey Chair/CEO, PadillaCRT (CHAIR)
• Shari L. Ballard*, Chair and CEO, Best Buy Co. (VICE CHAIR)
• John E. Lindahl, Vice Chair, Chairman, Norwest Equity Partners (VICE CHAIR)
• Christopher J. Policinski, Retired President and CEO, Land O'Lakes Inc. (VICE CHAIR)
• Thomas G. Olson, Retired Managing Director, Prime Mortgage (SECRETARY)
• Erik M. Torgerson*, President, Folden Hills Partners LLC (TREASURER)
• Ross Levin, CEO/Founder, Accredited Investors Inc. (PAST CHAIR)
• Kathleen M. Schmidlkofer, PRESIDENT AND CEO, University of MN Foundation

Trustees
• Regent Thomas J. Anderson*, Director/Owner, Anderson Funeral Home
• Scott Augustine, M.D., CEO/Founder, Augustine Biomedical & Design
• Ruth Bachman*, Chair, Community Advisory Board, Masonic Cancer Center, U of M
• Regent Richard B. Beeson, Jr.*, EVP, Corporate Development & Government Relations, Sunrise Bank
• Mary K. Brainerd*, President and CEO, HealthPartners
• Blythe A. Brenden, Founder, Blythe Brenden-Mann Foundation
• Michael B. Fiterman, Chairman, Liberty Diversified International
• Archie Givens, Jr., CEO, Givens Development
• Kenneth C. Glaser, President, K. Charles Development
• Kurt E. Heikkila, CEO/Founder, Tundra Companies
• Deborah L. Hopp, Senior Vice President, MSP Communications, Publisher, Mpls.St.Paul Magazine, Delta Sky Magazine, and mspmag.com
• Russell Huffer, Retired Chairman/CEO, Apogee Enterprises
• Ezell Jones, Managing Partner/Founder, Fifth Quarter Integrated Solutions
• Eric W. Kaler, Ph.D.*, President, University of Minnesota
• Erwin A. Kelen, President, Kelen Ventures
• Richard M. Kruger, Chairman, President, and CEO, Imperial Oil Limited
• Beth Keiffer Leonard, Managing Partner, Lurie LLP
• Richard L. Lindstrom, M.D., Founder, Minnesota Eye Consultants
• Walter F. Ling*, Retired Vice President and Minnesota Senior State Executive, IBM
• Regent Margaret E. Lucas*, Founder/Partner, Brighton Development
• Susan I. Marvin, Chair, Marvin Windows and Doors
• David J. Meyer*, CEO & Chairman, Titan Machinery Inc.
• Virginia H. Morris, Chair, Hubbard Radio
• David C. Mortenson, Chairman, M.A. Mortenson Co.
• Richard T. Ostlund, J.D., Principal, Anthony Ostlund Baer & Louwagie P.A.
• Michael F. Roman, Chief Executive Officer, 3M Co.
• Roger J. Sit, Chairman, Sit Investment Associates
• Philip E. Soran, Executive Chairman, Vidku
• Esta E. Stecher, Managing Director, The Goldman Sachs Group Inc.
• Bradford W. Wallin, Member, Minneapolis Grain Exchange
• Theresa B. Ward, SVP Wealth Management, Wealth Mgmt Advisor, Merrill Lynch
• Kevin F. Warren, J.D., Chief Operating Officer, Minnesota Vikings
• Penny A. Wheeler, M.D., President and CEO, Allina Health
• Jacqueline R. Williams-Roll, Chief Human Resources Officer, General Mills
• Simon KaWo Wong*, Group Chairman, Kampery Group, Hong Kong

* Regent Appointed
UMFREA: U of MN Foundation Real Estate Advisors

**Governance Board**

- Kathy Schmidikofer*, (CHAIR) President and CEO, University of Minnesota Foundation
- Kathy Pickard†, (TREASURER), Vice President and CFO, University of Minnesota Foundation
- Sarah Harris, (SECRETARY), Managing Director, UMF Real Estate Advisors
- David Mortenson*, Chair, Mortenson Company
- Phil Soran*
- Brian Burnett, SVP Finance and Operations, U of M

*U of M Foundation Board Member  ‡U of M Foundation Officer

**Advisory Council**

- Stuart Ackerberg, President and CEO, The Ackerberg Group
- Dan Avchen, Executive Director of Strategic Growth, HGA
- Mike Berthelsen, VP University Side Services, U of M
- Chris (Kit) Dahl, General Partner, Forum Investment Group, LLC
- Fred Friswold*, UMF Investment Advisors and University Gateway Corporation
- Archie Givens Jr.*, Board Member, University of Minnesota Foundation, President and CEO, Legacy Management
- Doug Gorence‡, CEO, UMF Investment Advisors
- John Griffith, Retired Head of Global Operations, American Refugee Committee, former EVP Real Estate, Target Corporation
- Larry Laukka, President, Laukka Jarvis
- Ross Levin‡, Principal, Accredited Investors
- Lisa Moe, President & CEO, Stuart Companies
- Jim Nelson, Principal, Eberhardt Advisory
- Jack Rice, Owner, The Rice Company
- Doug Seylar, SVP and Managing Director CBRE/Capital Markets
- Julie Snow, Founder Snow-Krelich
- Bob Strachota, President, Shenehon Company
- Jim Stolpestad, Chairman, Exeter Realty Company
Visus Governance

**Visus Board**
- Sarah Harris, Managing Director, UMFREA (CHAIR)
- Kathy Schmidtkofer, President and CEO, UMF
- Virginia H. Morris, Trustee, UMF, Chair, Hubbard Radio
- Brian Burnett, SVP Finance & Operations, U of M (non-voting)
- Jim Pohlad, Co-Owner, Marquette Cos.
- Bert Colianni, President and CEO, Marquette Cos.
- Chris Pohlad, VP Asset Management, United Properties

**Visus Management Committee**
- Sarah Harris, Managing Director, UMFREA (CHAIR)
- Kathy Pickard, CFO, UMF
- Mike Berthelsen, VP U-Wide Services, U of M (non-voting)
- Bert Colianni, President and CEO, Marquette Cos.
- Bill Katter, Co-President, United Properties
Market Sufficient for Creating Undergraduate Housing
## Near-Campus Student Housing Market

<table>
<thead>
<tr>
<th>Market</th>
<th>Unit Count</th>
<th>Bed Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Residence Hall</td>
<td>3,398</td>
<td>5,758</td>
</tr>
<tr>
<td>University Apartment</td>
<td>496</td>
<td>1,028</td>
</tr>
<tr>
<td>University Cooperative</td>
<td>820</td>
<td>3,088</td>
</tr>
<tr>
<td>Greek Houses</td>
<td>43</td>
<td>1,273</td>
</tr>
<tr>
<td>Nonprofit Apartment and Cooperative</td>
<td>484</td>
<td>1,319</td>
</tr>
<tr>
<td>Large Apartment Buildings</td>
<td>4,382</td>
<td>10,316</td>
</tr>
<tr>
<td>Small Apartment Buildings / Houses</td>
<td>1,505</td>
<td>4,439</td>
</tr>
<tr>
<td>Future to Open (large apartment)</td>
<td>1,250</td>
<td>2,642</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>12,378</strong></td>
<td><strong>29,863</strong></td>
</tr>
</tbody>
</table>
Private Student Housing Market (19,965 beds)

- 6,300 Beds (22 yrs)
- 9,040 beds (5 yrs)
- 4,625 beds (5 yrs)