

UW-Madison: Enhancing Excellence, Overcoming Obstacles, Pursuing Partnerships

Chancellor Jennifer L. Mnookin University of Wisconsin Board of Regents

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Enhancing excellence in education, research, and outreach



Excellence in education



Convocation 2022

Winter Commencement 2022



Serving more students and improving outcomes

- #6 among U.S. public universities in six-year graduation rates
- Average time-to-degree down again: 3.85 calendar years
- More than 60% of undergrads graduate with NO student debt
- Recent study: Five U.S. universities produce one in eight of the nation's tenure-track professors: UC Berkeley, Harvard, Michigan, Stanford, UW–Madison

New faculty recruitment



Professor Monica Kim

2022 MacArthur Fellow



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Excellence in research



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World-class centers and institutes (including, among many others):

- Carbone Cancer Center
- Institute for Research on Poverty
- Waisman Center



Excellence in outreach











Extension UNIVERSITY OF WISCONSIN-MADISON

Thank you, Chancellor Emerita Rebecca Blank!



Overcoming obstacles

Five challenges

- 1. Creating a physical infrastructure to support ongoing excellence
- 2. Helping our students thrive as learners, community members, and people
- 3. Bringing outstanding students into Wisconsin and keeping top students in the state
- 4. Growing the research enterprise
- 5. Making the case for increased state investment and flexibilities



Obstacle #1

Creating the physical infrastructure to support ongoing excellence

Movement into STEM

Trend in Juniors and Seniors with STEM Majors



Fall Semester



Reinvestments falling behind peer institutions

Average annual spend over 5 years to recurring and capital reinvestment target (Academic and Research Space Only)



A-G represent a pool of universities: Cornell University, Duke University, Johns Hopkins University, MIT, University of Pennsylvania, University of Pittsburgh, and University of Washington



Meeting demand for engineering





Meeting demand for computer and data science



Growth in more than just STEM



Creating a new home for Music and Art



Irving & Dorothy Levy Hall



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Obstacle #2:

Helping our students thrive as learners, community members, and people





Progress toward a more diverse campus

- Highest-ever number (907) and share (39.5%) of women faculty
- Highest-ever number (606) and share (26.4%) of faculty of color
- Highest-ever number (239) and share (10.4%) of faculty of color from historically underrepresented groups



Obstacle #3:

Bringing outstanding students into Wisconsin and keeping top students in the state

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Projected percent change in number of high school graduates: 2013-2029



Source: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD). April 2019. https://nces.ed.gov/programs/PES/section-3.asp#3



Percentage of Wisconsin students enrolling at UW–Madison following HS graduation





Share of our grads staying in Wisconsin to work



2016-17 grads employed in WI

2021-22 grads employed in WI



Obstacle #4:

Growing the research enterprise, creating more knowledge with impact on the world, and enhancing the ways we link to industry



Top 10 universities by research expenditures

- 1. Johns Hopkins University
- 2. University of California, San Francisco
- 3. University of Michigan
- 4. University of Pennsylvania
- 5. University of Washington, Seattle
- 6. University of California, Los Angeles
- 7. University of California, San Diego
- 8. University of Wisconsin–Madison
- 9. Stanford University
- 10. Harvard University



10-year growth in industry R&D expenditures at UW–Madison





Obstacle #5:

Making the case for increased state investment along with needed flexibilities to let us operate efficiently and effectively

UW–Madison is a great investment!

- We support one out of every 13 jobs in Wisconsin
- \$31 billion annual economic impact
- Every state dollar invested returns \$26.73

Source: NorthStar Analytics, LLC, 2021



Creating resources for the future

State support for higher ed: 10 Years



% change in state spending per student, 2011-2021 (adjusted for inflation)



Change in resident undergrad tuition at Midwest flagships, 2018 to 2022



<u>Tuition & Fees (2022)</u> Illinois \$17,138 Michigan \$16,736 Minnesota \$15,859 UW–Madison \$10,796

Flexibilities to make us more nimble

Pursuing partnerships

Opportunities to improve education



UW System Student Views on Freedom of Speech

Summary of Survey Responses



Photo: WLUK

Opportunities to improve research



Life sciences: An amazing success story



National leadership in the life sciences: Cryo-electron microscopy





UW - Morgridge Cryo-EM Breakthroughs in Viral RNA Replication Complex Imaging





Looking ahead: Building on our strengths

- Clean energy and energy storage
- Fusion research
- Climate change and sustainability
- Quantum science
- Semiconductors
- Application of artificial intelligence and machine learning

Opportunities to improve access



Bucky's Tuition Promise: 2018 vs. 2022







Bucky's Pell Pathway





