Formal Session of the Board of Trustees
April 24, 2026
9:00 a.m. – 11:00 a.m.
Location: MUB Ballroom B
Public Meeting

I Call to Order
Jon Jipping, Chair

II. Roll Call
Sarah Schulte, Secretary

III. Confirm Agenda
Jon Jipping, Chair

IV. Opening Remarks

A. Opening Remarks of the Board Chair
Jon Jipping, Chair

B. Opening Remarks of the University President
Richard Koubek, President

V. Public Comment Period

VI. Committee Reports

A. Academic Affairs Committee
John Bacon, Committee Chair

B. Audit and Finance Committee
Steve Tomaszewski, Committee Chair

C. Leadership Committee
Monique Wells, Committee Chair

VII. Consent Agenda

A. Approval of Minutes
B. Resignations, Retirements, and Off-Payroll
C. Funding Productivity Report
D. Honorary Posthumous Degree
E. Contracts $1,000,000 or more

VIII. Action and Discussion Items

A. **Tenure-Track Appointments Not Involving Tenure and/or Promotion**
Andrew Storer, Provost and Vice President for Academic Affairs

B. **Appointments Involving Tenure and/or Promotion**
Andrew Storer, Provost and Senior Vice President for Academic Affairs

C. **Promotions**
Andrew Storer, Provost and Senior Vice President for Academic Affairs

D. **Appointment with Tenure**
Andrew Storer, Provost and Senior Vice President for Academic Affairs

E. **Emeritus Rank**
Andrew Storer, Provost and Senior Vice President for Academic Affairs

F. **New Degree Programs**
Andrew Storer, Provost and Senior Vice President for Academic Affairs

1. Associate of Science in General Studies
2. Bachelor of Science in Artificial Intelligence
3. Master of Science in Robotics Engineering
4. PhD in Electrical & Computer Engineering

G. **Establish the School of Health, Human, & Biological Systems** Andrew Storer, Provost and Senior Vice President for Academic Affairs

H. **Honorary Degree**
Andrew Storer, Provost and Senior Vice President for Academic Affairs

I. **FY 26-27 General Fund Budget**
Carlos Rodriguez, Board Treasurer

J. **Resolution for Approval of External Auditor**
Carlos Rodriguez, Board Treasurer

IX. Reports

A. **Aquatic Ecosystem Ecology at Michigan Tech**
Amy Marcarelli, Professor, Department of Biological Sciences

B. **Provost Report**
Andrew Storer, Provost and Senior Vice President for Academic Affairs

C. **Undergraduate Student Government**
Ford Schoonover, President

D. **Graduate Student Government**
Lauren Sprague, President

E. **University Senate**
Robert Hutchinson, President

X. Informational Items

A. Analysis of Investments

B. Research and Sponsored Programs

C. Advancement & Alumni Relations

D. Media Coverage

E. Employee Safety Statistics

F. Disposal of Surplus Property

G. Summary of Scholarships, Awards, and Grants (Board Policy 9.3)

XI. Date for Next Formal Meeting: July 30, 2026

XII. Other Business

XIII. Adjourn

Agenda Documents to follow

BOARD OF TRUSTEES OFF-PAYROLL REPORT

B. Resignations, Retirements, and Off-Payroll (February 1, 2026 – March 28, 2026)

Retirements						
Last Name	**First Name**	**Class**	**Department**	**Job Title**	**Current Hire Date**	**Term Date**
Blake	Donna	AF	McNair Hall Food Service	Food Service Helper	09/20/1996	03/08/2026

Off Payroll						
Last Name	**First Name**	**Class**	**Department**	**Job Title**	**Current Hire Date**	**Term Date**
Paspula	Udaya Sri	PF	Budget and Planning	Budget & Planning Analyst	09/02/2025	02/02/2026
Afghan	Najibullah	UF	Jackson Center for Teaching & Learning	Senior Office Assistant	11/10/2025	02/04/2026
Paki	Joseph	PF	Michigan Tech Research Institute(MTRI)	Research Scientist	07/01/2019	02/06/2026
Geglio	Anthony	PF	Great Lakes Research Center	Research Engineer	03/17/2025	02/06/2026
Mavhiya	Anesu	PF	Residence Housing	Residence Education Coordinator	02/03/2025	02/06/2026
Rahn	Harry	PF	Waino Wahtera Center Student Success	STEM Success Coordinator	07/21/2025	02/10/2026
Robinson	Trenton	PF	Enterprise Application Services	Programmer/Analyst	08/08/2022	02/12/2026
Ball	Todd	NF	Facilities Management	Central Energy Plant Operator	03/20/2006	02/12/2026
Drow	Spencer	UF	Merchandising Operations	Administrative Aide	11/11/2024	02/13/2026
Halonen	Brett	PF	Center for Technology & Training	Software Developer	10/28/2024	02/20/2026
Huotari	Damon	PF	Office of Advancement	Director for Charitable Giving	04/04/2022	02/20/2026
Raasio	Meredith	PF	Office of Advancement	Director for Charitable Giving	09/02/2024	03/02/2026
Jantzi	Will	UF	College of Sciences & Arts	Administrative Aide	09/16/2024	03/05/2026
Buller	Lucille	PP	Michigan Tech Research Institute(MTRI)	Research Scientist	02/07/2022	03/06/2026
Gumpper	Rachel	PF	Michigan Tech Research Institute(MTRI)	Research Scientist	11/11/2024	03/06/2026
Hart	Benjamin	PF	Michigan Tech Research Institute(MTRI)	Research Engineer	06/23/2008	03/06/2026
Lowe	Rebecca	PF	Michigan Tech Research Institute(MTRI)	Research Scientist	06/10/2024	03/06/2026
Singleton	Tristan	PF	Michigan Tech Research Institute(MTRI)	Research Engineer	04/15/2024	03/06/2026
Kilpela	Jack	AF	Wadsworth Hall Food Service	Food Service Helper	07/28/2025	03/07/2026
Ferguson	Jordan	CF	General Athletics	Head Coach Strength & Conditioning	01/10/2022	03/13/2026
Kocour	Laurie	PF	Enterprise Application Services	Manager, Business Systems	09/02/2025	03/20/2026
Sanders	Jennifer	PF	Sponsored Programs Office	Pre-Award Manager	07/07/2025	03/20/2026
Filpus-Paakola	Jodie	PF	Equal Opportunity Compliance & Title IX	Title IX Coordinator	08/15/2011	03/20/2026
Ata	Athar	FF	Chemistry	Professor	07/01/2023	03/26/2026
Graham	Jeremy	PF	Michigan Tech Research Institute(MTRI)	Research Scientist	01/14/2018	03/27/2026
Olson	Ashley	PP	Michigan Tech Research Institute(MTRI)	Research Engineer	06/26/2023	03/27/2026

C. Funding Productivity Report

Michigan Technological University
Michigan Tech Fund
Fundraising Productivity Report
Fiscal Year 2026 through 2/28/2026

FY 2026

Source	YTD Total	FY Goal	% of Goal
Individual Giving	*$27,756,790*	*23.18*	*120%*
Corporate Giving	$2,437,759	2.62	93%
Foundation & Other Org Giving	$1,148,154	5.13	22%
Corporate Sponsored Research	$10,403,607	14.09	74%
FUNDRAISING TOTAL	**$41,746,310**	**45.02**	**93%**

FY 2025

Source	YTD Total	FY Goal	% of Goal
Individual Giving	*$16,519,897*	*22.61*	*73%*
Corporate Giving	$1,644,472	2.56	64%
Foundation & Other Org Giving	$1,595,864	5.00	32%
Corporate Sponsored Research	$11,393,381	13.75	83%
FUNDRAISING TOTAL	**$31,153,614**	**43.92**	**71%**

D. Honorary Posthumous Degree

VII-D. HONORARY POSTHUMOUS DEGREE

The administration is recommending that Trenton M. Robinson be awarded an Honorary Posthumous Master of Engineering Management Degree.

Before joining Michigan Tech in August of 2022 as a software engineer and remote consultant, Trenton held a position with Macy's System and Technology in their Electronic Commerce Technology Office. As an employee of Michigan Tech, Trenton was also working toward his Master of Engineering Management Degree, had completed 98% of the degree requirements with a 4.0, and was planning to participate in commencement in April 2026 where he would have been graduating Summa Cum Laude. He had also been inducted into the National Society of Leadership and Success. Due to his untimely passing on February 12, 2026 Trenton was not able to complete his degree or participate in spring commencement.

RECOMMENDATION: It is recommended to the Board of Trustees that Trenton M. Robinson be awarded an Honorary Posthumous Master of Engineering Management Degree.

E. Contracts $1,000,000 or more

VII- E. CONTRACTS $1,000,000 OR MORE

Board Policy 11.13 requires that all contracts with a value of $1,000,000 or greater, with the exception of contracts for the provision or receipt of academic research services, require approval of the Board of Trustees prior to execution by the University except for sales of real property, which require Board of Trustee approval only if the fair market value is equal to or greater than $5,000,000.

- Ellucian (Banner) - Enterprise Resource Planning (ERP) system
    - Anticipated contract dates: July 1, 2026 - June 30, 2029
    - Contract type: Renewal of existing software services, Ellucian software includes Michigan Tech's Student Information and Enterprise Resource Planning systems
    - Anticipated contract amount: $1,646,143
    - Funding source: General Fund (Information Technology, Provost)

- Network storage array - Datacenter infrastructure that supports all IT services
    - Anticipated contract dates: July 1, 2026 - June 30, 2031
    - Contract type: Renewal of existing software services, upgrade and expansion of existing network storage.
    - Anticipated contract amount: $3,000,000 - $3,500,000
    - Funding source: General Fund (Information Technology)

VIII. Action and Discussion Items

A. Tenure-Track Appointments Not Involving Tenure and/or Promotion

Andrew Storer, Provost and Vice President for Academic Affairs

VIII-A. TENURE-TRACK APPOINTMENTS NOT INVOLVING TENURE AND/OR PROMOTION

The departments, with support from the respective colleges, have requested that the individuals identified in this section be granted the indicated appointments. The administration supports the recommendations of the departments and colleges regarding these appointments.

RECOMMENDATION: It is recommended that the Board of Trustees approves the appointments listed in this section. The appointments do not include tenure or promotion.

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Michigan Tech

Office Memo

Office of the Provost and
Senior Vice President for Academic Affairs

Phone: (906) 487-2440
Fax: (906) 487-2935

TO: Richard Koubek, President

FROM: Andrew Storer, Provost and Senior Vice President for Academic Affairs

DATE: February 16, 2026

SUBJECT: Tenure-Track Faculty Appointment Recommendations

In accordance with Board of Trustees Policy 2.2, Duties and Powers of the President, I am submitting the following faculty appointment recommendations for your review and subsequent approval by the Board of Trustees at their meeting on April 25, 2025.

Appointment without Tenure for Two Years
Effective August 17, 2026

Giridhar Reddy-Bojja	Assistant Professor	College of Business
Xin Li	Assistant Professor	College of Business
Amna Mazen	Assistant Professor	Applied Computing
Ashraf Saleem	Assistant Professor	Applied Computing
Michael Walker	Assistant Professor	Computer Science
Aytug Gencoglu	Assistant Professor	Chemical Engineering
Maria Gencoglu	Assistant Professor	Chemical Engineering
Robert Handler	Assistant Professor	Chemical Engineering
Sai Sandeep Chitta	Assistant Professor	Civil, Environmental & Geospatial Eng.
Jiehong Guo	Assistant Professor	Civil, Environmental & Geospatial Eng.
Yousef Mohammadi Darestani	Assistant Professor	Civil, Environmental & Geospatial Eng.
Mohammadhossein Sadeghiamirshahidi	Assistant Professor	Civil, Environmental & Geospatial Eng.
Yi Zhu	Assistant Professor	Civil, Environmental & Geospatial Eng.
Flavio Bezerra Costa	Assistant Professor	Electrical & Computer Engineering
Tan Chen	Assistant Professor	Electrical & Computer Engineering
Fengying Dang	Assistant Professor	Electrical & Computer Engineering
Kaichen Yang	Assistant Professor	Electrical & Computer Engineering
Michelle Jarvie-Eggart	Assistant Professor	Engineering Fundamentals
Xiang Li	Assistant Professor	Geological & Mining Eng. & Sciences
Anis Fatima	Assistant Professor	Manufacturing & Mechanical Eng. Tech.
Fei Long	Assistant Professor	Mechanical & Aerospace Engineering
Vinh Nguyen	Assistant Professor	Mechanical & Aerospace Engineering
Wei Wei	Associate Professor	Mechanical & Aerospace Engineering
Shangyan Zou	Assistant Professor	Mechanical & Aerospace Engineering
Sarah Hoy	Assistant Professor	College of Forest Resources & Env. Sci.

Jason Archer	Assistant Professor	Humanities
Robert Schneider	Assistant Professor	Mathematical Sciences
Kayla Gabehart	Assistant Professor	Social Sciences
Daniel Shtob	Assistant Professor	Social Sciences
Terry Jachimiak	Assistant Professor	Visual & Performing Arts

Appointment without Tenure for One Year – Extension to Tenure Clock
Effective August 17, 2026

Seulchan Lee	Assistant Professor	College of Business
Alden Adolph	Assistant Professor	Engineering Fundamentals
Hongyu An	Assistant Professor	Electrical & Computer Engineering
Sriram Vijayan	Assistant Professor	Materials Science & Engineering
Yinan Yuan	Assistant Professor	College of Forest Resources & Env. Sci.
Paul Goetsch	Assistant Professor	Biological Sciences
Carolyn Duncan	Assistant Professor	Kinesiology & Integrative Physiology
Elena Giusarma	Assistant Professor	Physics
Kartik Keshava Iyer	Assistant Professor	Physics

Appointment without Tenure for One Year
Effective August 17, 2026

Jae Sung Kim	Assistant Professor	Civil, Environmental & Geospatial Eng.
Byung-Jun Kim	Assistant Professor	Mathematical Sciences

Formal notification of these decisions will be sent to each individual Wednesday, May 5, 2026.

APPROVED:

Richard Koubek, President

2/16/26

Date

B. Appointments Involving Tenure and/or Promotion

Andrew Storer, Provost and Senior Vice President for Academic Affairs

VIII-B. APPOINTMENTS INVOLVING TENURE AND/OR PROMOTION

The policy for granting tenure and/or promotion to faculty members requires that the process begin with deliberations in the candidate's home unit and proceed through additional review at multiple levels. Recommendations are reviewed by the provost, and the provost makes a recommendation to the president of the University. The president has accepted the provost's recommendation regarding tenure and/or promotion for the candidates listed in this section.

RECOMMENDATION: It is recommended that the Board of Trustees approves the appointments involving tenure and/or promotion listed in this section.

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Michigan Tech

Office Memo

Office of the Provost and
Senior Vice President for Academic Affairs

Phone: (906) 487-2440
Fax: (906) 487-2935

TO: Richard Koubek, President

FROM: Andrew Storer, Provost & Senior Vice President for Academic Affairs

DATE: April 8, 2026

SUBJECT: Appointment with Tenure Recommendation or Tenure and Promotion Recommendations

In accordance with Board of Trustees Policy 6.4, Academic Tenure and Promotion, the following faculty members have been recommended for appointment and/or promotion with tenure. I have reviewed and support these recommendations and request that the Board of Trustees be asked to approve them at their April 24, 2026 meeting. If approved, the promotions will be effective August 17, 2026.

Promotion from Assistant Professor without Tenure to Associate Professor with Tenure

Jun Dai	College of Business
Briana Bettin	Computer Science
Leo Ureel	Computer Science
Valoree Gagnon	College of Forest Resources & Env. Sci.
David Labyak	Manufacturing & Mechanical Engineering Technology
Jung Yun Bae	Mechanical & Aerospace Engineering
Ana Dyreson	Mechanical & Aerospace Engineering
Susanta Ghosh	Mechanical & Aerospace Engineering
Yixin Liu	Chemical Engineering
Vijaya Venkata Malladi	Mechanical & Aerospace Engineering
Hoda Hatoum	Biomedical Engineering
Stephanie Carpenter	Humanities
Trista Vick-Majors	Biological Sciences

Promotion from Associate Professor without Tenure to Associate Professor with Tenure

Jason Harman	Psychology & Human Factors

APPROVED:

Richard Koubek, President

4/9/26
Date

INFORMATION SHEET FOR BOARD OF TRUSTEES
Jun Dai
Michigan Technological University

Jun Dai, who is currently an assistant professor of accounting information systems without tenure in the College of Business, is being considered for promotion to associate professor of accounting information systems with tenure in the College of Business.

Academic Degrees:

Ph.D.	2017	Rutgers, The State University of New Jersey, Newark, NJ
B.S.	2011	Southwestern University of Finance and Economics, Chengdu, China

Professional Record:

2020 – present	Assistant Professor (without tenure), College of Business
2017 – 2020	Assistant Professor (without tenure), College of Accounting, Southwestern University of Finance and Economics, Chengdu, China

Summary of Accomplishments:

- *Teaching*

Dr. Dai consistently integrates her interdisciplinary research that bridges accounting with data analytics and emerging technologies into classrooms to prepare students for the future tech-savvy working environment. During the past 5 years, she has taught seven courses, five of which she developed to enhance students' understanding and practical skills in applying technologies to accounting workflows. Two of these courses ranked in the top 10% of courses in student evaluations across the university in Spring 2025. Collectively, these courses foster an analytics-driven mindset and empower students to leverage emerging technologies in reshaping and innovating traditional accounting practices. Her impact extends well beyond the classroom. She has been a dedicated mentor to scholars, students, and educators in the field of accounting information systems. She has served on six accounting information systems dissertation committees. In addition, she has mentored undergraduates and master's students, guiding 15 of them in research projects. Her expertise has also been recognized nationally. She was invited by the American Institute of Certified Public Accountants (AICPA) to deliver a Faculty Hour lecture on teaching blockchain in accounting education. The session, which covered course design, key concepts, literature, and sample assignments, attracted more than 900 registrants. Collectively, her teaching, mentorship, and broader educational efforts contribute directly to the College of Business's vision of preparing students to positively impact society through the integration of technology and business. They also align with Michigan Tech's mission of fostering interdisciplinary education and advancing innovation.

- *Research/Scholarly Activity*

Dr. Dai seeks to advance technological innovation in accounting by designing novel applications and investigating the drivers of technology adoption by the accounting profession. Her studies offer guidance and insights for practice by developing frameworks that transform technological applications into practical accounting methodologies. She has published in prestigious academic journals and professional journals, such as Accounting and Finance, Accounting Horizons, International Journal of Accounting Information systems, Journal of Information Systems, Journal of Emerging Technologies in Accounting, and the CPA Journal. Her paper, Towards Blockchain-based Accounting and Assurance,

received the American Accounting Association 2021 "Notable Contributions to Accounting Literature Award." This annual award honors groundbreaking scholarly work that significantly shapes accounting theory and has a lasting impact on the field. Her paper is the first paper from the accounting information systems domain to receive this prestigious recognition. In 2023, she was honored with the "Outstanding Researcher Award" from the American Accounting Association Strategic and Emerging Technologies Section. This award honors scholars whose work demonstrates significant impact, originality, and relevance to both the strategic and emerging technologies field and the broader accounting community. Her paper, Imagineering Audit 4.0, received the "Bright Idea" award in 2017. This award recognizes the top 10 manuscripts published by New Jersey business researchers in the previous year. As of September 8th, 2025, she has published 22 papers and one book, with a total of 3,129 citations according to Google Scholar. She has contributed to externally funded research totaling more than $250,000, including projects sponsored by federal agencies and international research foundations. Particularly, she was awarded with two grants from the Institute of Management Accountants (IMA) as the Principal Investigator —the first ever from Michigan Tech being funded by the IMA.

- *Service*

Dr. Dai has been actively involved in service for the accounting program, the College of Business, the university, and the accounting profession. At the program level, she strengthened the accounting curriculum by developing five interdisciplinary courses offered at both the graduate and undergraduate levels. Within the College of Business, she served on one committee each year and on four faculty search committees (three in accounting and one in management information systems) over the past five years. She also served as the alternate senator of the College of Business for AY25–26. She further contributed to student-focused activities such as mentoring undergraduate research projects, organizing student mixers, selecting College of Business student award recipients, and leading student field trips. At the university level, she served as convener of the Tech Forward 2.0 Digital World Pillar, faculty judge for multiple student research competitions and expos, and committee member for the REF SCG review group on three occasions. Beyond Michigan Tech, she has served as Associate Editor of the *Journal of Emerging Technologies in Accounting* since 2018. She is also a member of the editorial boards of the *Journal of Information Systems* (since 2021) and the *International Journal of Accounting Information Systems* (since 2024). In addition, she has chaired the Strategic and Emerging Technologies Research Workshop at the American Accounting Association Annual Meetings since 2022.

- *Recent and Significant Publications/Exhibitions/Performances/Etc.*
  - Zhang, C., W. Zhu, **J. Dai**, Y. Wu, and X. Chen. 2025. Drivers and Concerns of Adopting Artificial Intelligence in Managerial Accounting. Accounting & Finance. https://doi.org/10.1111/acfi.13404
  - Gu, Y., S. Katz, X. Wang, M. Vasarhelyi, and **J. Dai**. 2024. Government ESG reporting in smart cities. International Journal of Accounting Information Systems, 54, 100701. https://doi.org/10.1016/j.accinf.2024.100701
  - Li, N., M. Kim, **J. Dai**, and M. Varsarheyi. 2024. Using Artificial Intelligence in ESG Assurance. Journal of Emerging Technologies in Accounting, 1-17. https://doi.org/10.2308/JETA-2022-054
  - Gu, Y., **J. Dai**, and M. Vasarhelyi. 2023. Audit 4.0-based ESG Assurance: An Example of Using Satellite Images on GHG Emissions. International Journal of Accounting Information Systems 50, 100625. https://doi.org/10.1016/j.accinf.2023.100625
  - Zhang, C., W. Zhu, **J. Dai**, Y. Wu, X. and Chen, X. 2023. Ethical Impact of Artificial Intelligence in Managerial Accounting. International Journal of Accounting Information Systems 49, 100619. https://doi.org/10.1016/j.accinf.2023.100619

INFORMATION SHEET FOR BOARD OF TRUSTEES
BRIANA C. BETTIN
Michigan Technological University

Briana C. Bettin, who is currently an assistant professor of computer science and human factors & psychology without tenure in the Department of Computer Science in the College of Computing, is being considered for promotion to associate professor of computer science with tenure in the Department of Computer Science in the College of Computing.

Academic Degrees:

Ph.D.	2020	Michigan Technological University, Houghton, MI
M.S.	2016	Iowa State University, Ames, IA
B.S.	2014	Michigan Technological University, Houghton, MI

Professional Record:

2020 – present	Assistant Professor (without tenure), Department of Computer Science and Department of Human Factors & Psychology, Michigan Technological University
2016 – 2020	Graduate Teaching Assistant, Michigan Technological University
2014 – 2016	Web Designer I, Skyline Technologies, Green Bay, WI

Summary of Accomplishments:

- *Teaching*

Briana C. Bettin was awarded the 2022 Distinguished Teaching Award for the Teaching Professor/Professor of Practice/Assistant Professor Category at Michigan Technological University. The same year, she was inducted into the Academy of Teaching Excellence and took part in the Dean's Teaching Showcase. In 2023, she received an ICC Achievement Award "For transforming education in computer programming and advocating for inclusive and accessible computing education." She consistently receives exemplary marks on her teaching evaluations, often reaching the Exceptional "Average of 7 Dimensions" Student Evaluation Score. Her overall average in a summary of the last three years is a 4.72 out of 5.

Briana C. Bettin has taught across all student levels at the university. She has taught the introductory programming course CS1121, which often includes a range of non-major students at varying levels despite being a first-semester course for departmental students. She has taught the required CS3000 ethics course in computer science, and has also developed two additional upper-level courses. CS3760, "Front End Development & Accessibility", was introduced as Special Topics in Fall 2024 and is now required for Software Engineering students. CS5765, "Reimagining Technofuturism", has been taught as CS5090 for several years, engaging upper-level undergraduate students and graduate students across several disciplines in human-centered computing conversations.

- *Research/Scholarly Activity*

Briana C. Bettin has been a co-PI or PI on over $3 million in funded efforts. Her research interests intersect across computing education (both formal and informal), ethics (society and technology intersections), and user experience (human-centered design). Her interdisciplinary approach and focus on considering how technology works for and with people allows her to quickly find a fit with collaborative research efforts. As Michigan Technological University continues to grow its research footprint and foster more inter- and cross- disciplinary collaboration, her skillset and perspective should only appreciate in value.

This Information Sheet Should Not Exceed Two Pages in Length

Briana C. Bettin has published 14 papers in top research journals and conferences for Human Factors and Computing Education. As primary author and alongside her co-authors, she received the 2022 best paper award from the Association for Computing Machinery (ACM) annual conference on Innovations and Technology in Computer Science Education (ITiCSE).

Briana C. Bettin is committed to not just her own scholarly activity, but the development of the next generation of scholars. Her research lab (SPINEL) welcomes undergraduate and graduate students interested in her research goals. She is an active participant in growing student skills, leading reading activities and workshops that build research knowledge and confidence. She motivates students toward being active participants in conducting research, where she provides guidance for project teams that the students collaborate, lead, and take ownership on. She also provides engaged one-on-one mentoring for her doctoral students, and works to advocate for them when opportunities fitting their interests and growth arise. She has co-authored several papers with students (including undergraduates) as authors. She has provided and encouraged opportunities for students to attend scholarly conferences. In addition, she has mentored undergraduate students through programs like URIP and McNairs, designed to encourage undergraduate research participation. Her passion for fostering research interest in undergraduate students and matriculating them into graduate studies aligns well with Michigan efforts both toward greater research productivity and graduate degree awards.

Briana C. Bettin is also recognized for her scholarly activity and insights within her community of peers. She has on several occasions been asked to provide perspectives and mentorships for a National Science Foundation funded effort: the Alliance for Interdisciplinary Innovation in Computing Education (AiiCE). She was nominated and served as co-chair for the inaugural Doctoral Consortium (DC) at RESPECT 2025, an ACM affiliated conference. She presented on research related topics internationally during a 2023 invited visit to Dr.Jari Porras's lab in Lappeenranta, Finland. She has taken part in scholarly workshops, attended top conferences, and fostered connections and recognition both nationally and internationally.

- *Service*

Briana C. Bettin has conducted significant service across all levels of academia. She has served on hiring committees within her home department of Computer Science as well as serving as an external member Humanities and Human Factors & Psychology. She has been a member of the Software Engineering Degree committee and the Data Science Department committee, and engaged with Leading Scholars candidates during their campus visits. Across the university, she has been involved in efforts with Essential Education and First-Year Experience, and Undergraduate Student Learning Goals. Currently, she is a member of the Student Success Council initiative through the Provost and Senior VP of Academic Affairs Offices, and a Tech Forward 2.0 Convener for the Education and Workforce Development group.

Briana C. Bettin has also provided national and international service, beyond her aforementioned scholarly service as a DC co-chair. She is a member (four-year appointment) of the ACM Athena Lecturer Award committee, an annual international award given for woman researchers with outstanding fundamental contributions to computing. She served as chair for the 2024-2025 award cycle. She was a Universal Design committee member for the 2023 ACM SIGCSE Technical Symposium, the largest computing education conference. She will also be serving as senior DC chair and an organizing committee member for RESPECT 2026.

- *Recent and Significant Publications/Exhibitions/Performances/Etc.*
  - **Creativity and Curb Cuts: Experiences in Our First Offering of a Front End Development and Accessibility Focused CS Course.** RESPECT, **2025.** DOI: 10.1145/3704637.3734783
  - **Challenges, Choice, & Change: Experiences and Reflections From the First Semester of a Technology and Human Futures Course.** SIGCSE, **2023.** DOI: 10.1145/3545945.3569872
  - **Semaphore or Metaphor? Student Perspectives on Analogy Use for Concurrent Programming Topics**. ITiCSE, **2022. [Best Paper]** DOI: 10.1145/3502718.3524796

INFORMATION SHEET FOR BOARD OF TRUSTEES
Leo C. Ureel II
Michigan Technological University

Leo C. Ureel II, who is currently a dually appointed assistant professor of computer science without tenure in the Department of Computer Science in the College of Computing and assistant professor of psychology and human factors without tenure in the Department of Psychology & Human Factors in the College of Sciences & Arts, is being considered for promotion to associate professor of computer science with tenure in the Department of Computer Science in the College of Computing and associate professor of psychology and human factors with tenure in the Department of Psychology & Human Factors in the College of Sciences & Arts.

Academic Degrees:

Ph.D.	2020	Michigan Technological University, Houghton, MI
M.S.	2003	Michigan Technological University, Houghton, MI
B.S.	1995	Michigan Technological University, Houghton, MI

Professional Record:

2020 – present	Assistant Professor of Computer Science (without tenure) in the Department of Computer Science and Assistant Professor of Psychology & Human Factors (without tenure) in the Department of Psychology & Human Factors, Michigan Technological University
2019 – 2020	Associate Teaching Professor of Computer Science, Michigan Technological University
2013 – 2019	Assistant Teaching Professor of Computer Science, Michigan Technological University
2010 – 2012	Instructor, Michigan Technological University

Summary of Accomplishments:

- *Teaching:* Dr. Ureel's teaching is characterized by a commitment to constructionist and process-oriented pedagogy, emphasizing problem decomposition, specification, and critique over immediate code execution. He utilizes hands-on learning environments that combine small projects and blended learning techniques to provide individualized feedback. For example:
    - Dr. Ureel pioneered the development and use of WebTA, an automated code critiquer, which provides students with individualized, immediate feedback on their programming assignments, even outside of class time.
    - His innovative efforts were recognized by the 2021 CTL Instructional Award for Innovative Teaching. He was also a winner of the 2015 Creative Canvas Course Contest and received the Dean's Teaching Showcase award in 2020.
    - Dr. Ureel places a strong emphasis on mentoring, currently advising five Ph.D. students (Chair/Co-Chair). He has successfully developed the CS Education Research Group (CS-ERG), an interdisciplinary group supporting undergraduate researchers (e.g., URIP and SURF participants).
- *Research/Scholarly Activity:* Dr. Ureel's research is situated at the intersection of Computer Science (CS), Artificial Intelligence (AI), and the Learning Sciences (LS), focusing on understanding how novice programmers learn and developing intelligent tools to support that

learning. For Example:

- The principal research product of Dr. Ureel's work is WebTA, which critiques student programs by identifying novice antipatterns. Since its deployment, WebTA has been used by 1,574 students across 25 course offerings, resulting in 64,723 code submissions and generating over 14 million individual critiques. This large corpus of data is a resource for further empirical studies on novice cognition.
- Research by Ph.D. advisees suggests that self-efficacy among women using WebTA increases significantly compared to that of men. Furthermore, Human Factors analysis of the WebTA user interface suggested learning gains attributable to critique patterns.
- Since 2020, his research has secured $1,815,164 in total funded research, with $694,832 as PI. Major awards include the NSF IUSE RICA project ($616,008; 2022–2026) for rich immediate critique of antipatterns and the NSF EAGER collaboration on sociotechnical support for digital inclusion ($299,617; 2021–2025).
- Dr. Ureel and his research group produced 29 peer-reviewed conference papers. His metrics include a Google Scholar h-index of 13 and i10-index of 17, with 750 total citations. Key foundational work includes "Automated critique of early programming antipatterns" in the proceedings of the ACM Technical Symposium on CS Education.

- *Service:* Dr. Ureel demonstrates sustained excellence across leadership, departmental, and community service, often in roles critical to student success and institutional inclusion.
  - Departmental and University Service: He has served as the Director/Faculty Coordinator of the CCLC for nine years (since September 2013). Under his leadership, the CCLC recorded over 2,400 student visits in the 2024–25 academic year. He instituted training emphasizing problem-solving practice and Socratic tutoring. Additionally, Dr. Ureel has served on key committees, including the CS Introductory Sequence Curriculum Committee, the College of Computing Retention Plan Working Group, and the Graduate Committee. He also served on multiple faculty search committees, including those for Tenure-Track and Instructional-Track.
  - Public and Professional Service: Dr. Ureel advises several student organizations, including the Infinite Loop undergraduate research journal and the Copper Country Coders student organization. Professionally, he also provides service as a peer reviewer for leading international and national academic conferences, including ASEE, FIE, FYEE, ITiCSE, and SIGCSE TS.
- *Recent and Significant Publications:*
  - Benjamin, M.*, Albrant, L.*, Jarvie-Eggart, M. E., Sticklen, J. H., Brown, L. E., **Ureel II, L. C.** (2024). Published Full Paper: Exploring Instructors' Insights to a MATLAB Code Critiquer. 15th Annual First-Year Engineering Experience Conference (FYEE).
  - Benjamin, M. E., **Ureel II, L. C**., Jarvie-Eggart, M. E. (2023). Published Paper: Engaging Novice Programmers: A Literature Review of Programming Self-efficacy. 2023 IEEE Frontiers in Education Conference (FIE).
  - **Ureel II, L. C.**, Wallace, C. R. (2019). Published Paper: Automated critique of early programming antipatterns. SIGCSE 2019 - Proceedings of the 50th ACM Technical Symposium on Computer Science Education.

INFORMATION SHEET FOR BOARD OF TRUSTEES
VALOREE S. GAGNON
Michigan Technological University

Valoree S. Gagnon, who is currently an assistant professor of human dimensions in natural resources without tenure in the College of Forest Resources and Environmental Science, is being considered for promotion to associate professor of human dimensions in natural resources with tenure in the College of Forest Resources and Environmental Science.

Academic Degrees:

Ph.D.	2016	Michigan Technological University, Houghton, MI
M.S.	2011	Michigan Technological University, Houghton, MI
B.S.	2009	Michigan Technological University, Houghton, MI

Professional Record:

2021 – present	Assistant Professor (without tenure), College of Forest Resources and Environmental Science, Michigan Technological University (Michigan Tech)
2023 – present	Affiliated Assistant Professor, Department of Humanities, Michigan Tech
2019 – 2021	Research Assistant Professor, College of Forest Resources and Environmental Science, Michigan Tech
2018 – 2024	Director of University-Indigenous Community Partnerships, Research Scientist, Great Lakes Research Center, Michigan Tech
2018 – 2019	Adjunct Instructor, College of Forest Resources and Environmental Science, Michigan Tech
2018 – 2019	Adjunct Faculty, Center for Native American Studies, Northern Michigan University
2017 – 2019	Research Assistant Professor, Department of Social Sciences, Michigan Tech
2017 – 2018	Indigenous / Native American Studies Specialist, Ford Center, Michigan Tech
2016 – 2017	Post-Doctoral Fellow, Department of Social Sciences, Michigan Tech
2011 – 2023	Adjunct Instructor, Keweenaw Bay Ojibwa Community College

Summary of Accomplishments:

● *Teaching*

Teaching is my superpower; students fuel my courage and motivate a desire for continuous innovation. My teaching gifts are evidenced by increasing student evaluation scores (2021-), landing on the University's top 10% three times (2021, 2022, 2025), and being selected for the Dean's Teaching Showcase (2025). Adopting a philosophy to facilitate learning from diverse sources, I prioritize professional development and sharing resources. For example, I co-created novel curriculum ("Local Literacy" modules, shared via Canvas Commons), and completed a 4-week Course Innovation workshop (2025). I also contributed to a vast collection of teaching resources for Michigan Tech's Essential Education (2025), including creative pedagogies, innovative assignment and assessment tools, and enhanced engagement practices for the indoor *and outdoor* classroom.

● *Research/Scholarly Activity*

During my assistant professorship, **my research has been strengthened through a collaborative spirit and the cultivation of a shared leadership ethic**. Aligning with the University and College Strategic Plans, I have assembled a community of transdisciplinary practice for engaged learning and scholarship, and

built a reputation for rigor and diligence (with both grit and grace). Our research community includes 1) students and faculty from a range of disciplines in the physical and social sciences, humanities, multiple engineering fields, and Indigenous studies, 2) external partner collaborators such as the Keweenaw Bay Indian Community (KBIC), Great Lakes Indian Fish and Wildlife Commission (GLIFWC), Intertribal Agricultural Council, and several Universities, and 3) financial sponsors, totalling more than $1.7 M, from the National Science Foundation, Bureau of Indian Affairs, Michigan Sea Grant, KBIC, and the Michigan Health Endowment Fund. **Serving as a student mentor and advisor has substantially contributed to my research and scholarly success**. I currently serve as a research mentor to 1 undergrad, advisor to 1 MS and 1 PhD student, and a committee member for 1 MS and 2 PhD students. Since 2021, I have mentored 13 undergraduate students in scholarly research, and have contributed towards the advanced degrees of 7 MS and 3 PhD students. With my guidance, some students have been awarded research internships and fellowships. **Since 2021, I have shared research productivity in a range of forums**, evidenced in the following track record. Recent publications include peer-reviewed journal articles (13) and book chapters (1) as sole author and with 1-31 different co-authors, engaging students (16+), first-author graduate students (5), professional academics (38+), and government partner practitioners (20+). I also contribute generously to public scholarship (13+) (e.g., technical reports, management plans). This work has been presented at 11 academic conferences, and I have given **20 invited talks** and co-organized 5 symposiums and workshops regionally. Finally, **by invitation**, I participated in the National Academies of Sciences, Engineering, and Medicine Midwest Workshop (2024) on the Co-Production of Knowledge.

● *Service*

My service record with College and University colleagues, and external policy and science groups, **illustrates my commitment** for cooperation with, and learning from, constituents of many kinds. Since 2021, I have served on 5 different CFRES committees (e.g., Diversity, Curriculum, and Strategic Planning), and more recently, serve on integral University groups: the Essential Education Steering Committee (2024-) and the Tech Forward 2.0 Smart Infrastructure and Communities Initiative Working Group (2025-). Spanning scales, my external service contributions center on bridging the Western and Indigenous sciences in research and policy. I have served as a peer-reviewer for academic journals (2) and external funders (5), and a conference planning and program committee member. With governments, I share expertise alongside the KBIC (2010-), GLIFWC (2011-), and Bi-national Great Lakes Water Quality Agreement's Traditional Ecological Knowledge (TEK) Task Force, Science Annex (2020-). Finally, I serve 2 NSF Research Coordination Networks as an External Advisory Committee member, for the food-energy-water nexus (2019-24) and for Great Lakes climate governance (2021-).

● *Recent and Significant Publications/Exhibitions/Performances/Etc.* **(* indicates student collaborator)**

Tran, M.A.*, and C. Reed-VanDam*, K. Belopavlovich*, E. Brown*, K. Higdon*, S.N. Lane-Clark*, K. McGowen*, E.L. Shaw*, **V.S.Gagnon**. 2024. Decentering humans in sustainability: A framework for Earth-centered kinship and practice. *Socio-Ecological Practice Research*. https://doi.org/10.1007/s42532-024-00206-9

Gagnon, VS. 2023. "Water and all my relations": Reimagining Indigenous water justice for seven generations. *Human Organization* 82(3):274–287. https://doi.org/10.17730/1938-3525-82.3.274

Gagnon, V.S, Ravindran, EH. 2023. Restoring human and more-than-human relations in toxic riskscapes: 'In perpetuity' within Lake Superior's Keweenaw Bay Indian Community, Sand Point. *Ecology & Society* 28(1)2 . https://doi.org/10.5751/ES-13655-280102

Shaw, E*, **Gagnon, VS**, Ravindran, EH. 2022. Seasons of Research with/by/as the Keweenaw Bay Indian Community. *Journal of Great Lakes Research.* https://doi.org/10.1016/j.jglr.2022.04.007

INFORMATION SHEET FOR BOARD OF TRUSTEES
DAVID M. LABYAK
Michigan Technological University

David M. Labyak, who is currently an assistant professor of mechanical engineering technology without tenure in the Department of Manufacturing and Mechanical Engineering Technology in the College of Engineering, is being considered for promotion to associate professor of mechanical engineering technology with tenure in the Department of Manufacturing and Mechanical Engineering Technology in the College of Engineering.

Academic Degrees:

Ph.D.	2017	Michigan Technological University, Houghton, MI
M.S.	2003	Michigan Technological University, Houghton, MI
B.S.	1990	Lake Superior State University, Sault Ste. Marie, MI
AAS	1988	Michigan Technological University, Houghton, MI

Professional Record:

2019 – present	Assistant Professor (without tenure), Department of Manufacturing & Mechanical Engineering Technology, Michigan Technological University
2018 – 2019	Assistant Professor (without tenure), School of Technology, Department of Mechanical Engineering Technology, Michigan Technological University
2017 – 2018	Instructor, School of Technology, Department of Mechanical Engineering Technology, Michigan Technological University
2005 – 2017	Senior Engineer, Facility Security Officer, Great Lakes Sound and Vibration, Inc., Houghton MI
2004 – 2005	Senior Project Engineer, Raytheon Missile Systems, Tucson AZ
1993-1999	Surface Manager/Project Engineer, Copper Range Company, White Pine MI
1990-1993	Manufacturing/Process Engineer, General Motors Corporation – AC Rochester Division, Oak Creek WI

Summary of Accomplishments:

- *Teaching*

One of the most important aspects Dr. Labyak has found with teaching engineering students is to present the theory and back it up with practical applications. Without practical applications, he found students believe there is limited importance with the theory presented. This doesn't make the theory less important by any means, because without the theory, the ability to solve engineering problems is severely limited. A student who understands the fundamental theory and how to apply that knowledge to engineering problems will have a good foundation for their engineering career. As this can be difficult for many students, being able to make this link between theory and practical applications is his primary goal as an instructor.

- *Research/Scholarly Activity*

Dr. Labyak's goal as an assistant professor is to be an effective teacher and researcher in the MMET department. To be an effective teacher at the undergraduate and graduate level, providing students with industrial examples that tie theory to practical problems. To be an effective researcher for manufacturing related projects for machinability studies. To be an effective researcher in the area of sports helmet

testing to safeguard players against head injuries and improve helmet designs. Finally, to be successful with funding opportunities for our department and for our students' research opportunities.

- *Service*

Dr. Labyak will continue to be involved with the American Society of Engineering Education (ASEE), American Foundry Society (AFS), and the Society of Experimental Mechanics (SME) through the submission of journal articles and conference proceedings. He will also continue to advise Manufacturing Engineering, Mechanical Engineering, and Material Science and Engineering MS and PhD students with the goal of seeking external funding and publishing journal papers. For his department, he continues to serve as the Advanced Metalworks Enterprise advisor, volunteer for prospective student visits, serve on hiring committees, and be involved with ABET curriculum improvements. For the university, he will continue to serve as the university club ice hockey advisor and head coach.

- *Recent and Significant Publications/Exhibitions/Performances/Etc.*

2025. Labyak, D. M., Sanders, P. G., Labyak, E. J. “Machinability of Solution Strengthened Ferritic Ductile Iron.” *International Journal of Metalcasting* (IJMC). https://link.springer.com/article/10.1007/s40962-025-01678-5
2024. Labyak, D. M., Irwin, J. “Industry 4.0 Integration in a Manufacturing Engineering Graduate Certificate and MS Degree.” *TIIJ Technology Interface International Journal* 24(1), 34-39. Ohio: TIIJ. https://2022.iajc.org/.
2023. Labyak, D. M. “Teaching Vibration and Modal Analysis Concepts in Traditional Subtractive Machining to Mechanical Engineering Technology Students.” *ASEE Engineering Design Graphics Division*. ASEE. https://peer.asee.org/44019. 10.18260/1-2-44019.

(April 30, 2025). Top 10% Teaching Evaluation Award, Michigan Technological University. Description: Identified as one who received an exceptional top 10% of scores university-wide for Spring Semester 2025.
(October 30, 2024). Best Session Presenter, ASEE - Conference for Industry and Education Collaboration (CIEC). Description: ASEE - Conference for Industry and Education Collaboration - February 2024 - Engineering and Technology Division
Best Session Presenter
(May 2024). Top 10% Teaching Evaluation Award, Michigan Tech. Description: Identified as one who received an exceptional top 10% of scores university-wide for Spring Semester 2024.
(April 19, 2022). MTU Deans' Teaching Showcase Award, MTU. Description: College of Engineering Teaching Showcase award for April 2022
(May 2021). Top 10% Teaching Evaluation Award, Michigan Tech. Description: Identified as one of only 69 instructors who received an exceptional “Average of 7 Dimensions” student evaluation score for Fall Semester 2020.

INFORMATION SHEET FOR BOARD OF TRUSTEES
JUNG YUN BAE
Michigan Technological University

Jung Yun Bae, who is currently an assistant professor without tenure in the Department of Mechanical and Aerospace Engineering in the College of Engineering (2/3) and the Department of Applied Computing in the College of Computing (1/3), is being considered for promotion to associate professor with tenure in the Department of Mechanical and Aerospace Engineering in the College of Engineering and the Department of Applied Computing in the College of Computing.

Academic Degrees:

Ph.D.	2014	Texas A&M University, College Station, TX
M.S.	2007	Hongik University, Seoul, Republic of Korea
B.S.	2005	Hongik University, Seoul, Republic of Korea

Professional Record:

2019 – present	Assistant Professor (without tenure), Departments of Mechanical & Aerospace Engineering and Applied Computing, Michigan Technological University
2014 – 2019	Research Professor, Korea University (including maternity and childcare leave)
2007 – 2008	Research Engineer, Korea Institute of Industrial Technology

Summary of Accomplishments:

- *Teaching*
  Dr. Bae has developed new hands-on laboratory materials for her "Autonomous Systems" (ME/EET4707) and computationally intensive assignments for her "Optimization I" (ME5680), while also teaching core courses like "Dynamic Systems" (ME3750) and a hands-on elective course, "LabVIEW Programming for Data Acquisition" (EET4253). Her teaching evaluations show a clear upward trend, with scores consistently staying around 4.5 for recent years. She has a proven record of successful graduate mentorship, having guided two Ph.D. and four M.S. students to graduation. Three additional Ph.D. students have now advanced to candidacy and are focused on their dissertation research.

- *Research/Scholarly Activity*
  Dr. Bae's research focuses on the coordination of multi-robot systems with heterogeneous agents in various applications. She founded the Intelligent Robotics and System Optimization Lab (IRoSOL), which focuses on three main research areas: exploring unknown space environments, agricultural automation, and monitoring underwater environments. Since joining Michigan Tech, she has secured significant funding from various sources, including the Department of Energy (DoE), NASA, Michigan Department of Agriculture and Rural Development (MDARD), and Nvidia, for more than $3M in total as a PI and Co-PI. IRoSOL is equipped with a diverse fleet of robotic platforms, including several ground robots, three manipulators, two tethered underwater robots, and a motion capture system for indoor experiments. She's been continuously publishing research findings in top-tier journals, averaging 2-3 journal papers per year.

- *Service*
  Dr. Bae has been serving as an Associate Editor for the IEEE International Conference on Robotics and Automation (ICRA) since 2020 and for the journal "Intelligent Service Robotics" since 2021. She has also served on review panels for the NSF and the DoE. She's an active reviewer for highly impactful

international journals in robotics and optimization, such as TRo and RAL, as well as international conferences such as IROS and CASE. She was a part of an MAE faculty hiring committee in 2023. Additionally, she has served 11 M.S. and 3 Ph.D. committees that have successfully defended. She's been actively involved in outreach activities with robotics, hosting students from the MTU summer youth program and Houghton Middle and High School FIRST Robotics teams, and participating in MindTrekker, a local STEM hands-on outreach program.

- *Recent and Significant Publications*
  - Kannan, K., & Bae, J. (2025). MTU-LLM (multi-robot task allocation utilizing large language models): LLM-based multi-robot task allocation and path planning for heterogeneous robots in search and rescue operations. AI, Computer Science, and Robotics Technology.
  - Patil, A., Park, M., & Bae, J. (2024). A heuristic for task allocation and path planning of multiple tethered underwater robots considering workload balance. Intelligent Service Robotics, 1–10.
  - Jacquelin, F., Bae, J., Chen, B., Robinette, D., Santhosh, P., Orlando, J., & Knopp, D. (2022). Connected and autonomous vehicle cohort speed control optimization via Neuroevolution. IEEE Access, 10, 97794–97801.
  - Bae, J., & Park, M. (2021). A heuristic for efficient coordination of multiple heterogeneous mobile robots considering workload balance. IEEE Robotics and Automation Letters, 6(2), 4064–4070.

INFORMATION SHEET FOR BOARD OF TRUSTEES
ANA R. DYRESON
Michigan Technological University

Ana R. Dyreson, who is currently an assistant professor of mechanical engineering without tenure in the Department of Mechanical and Aerospace Engineering in the College of Engineering, is being considered for promotion to associate professor of mechanical engineering with tenure in the same department.

Academic Degrees:

Ph.D.	2018	University of Wisconsin – Madison, Madison, WI
M.S.	2014	Northern Arizona University, Flagstaff, AZ
B.S.	2007	University of Wisconsin – Madison, Madison, WI

Professional Record:

2020 – present	Assistant Professor (without tenure), Department of Mechanical and Aerospace Engineering, Michigan Technological University
2018-2020	Post-doctoral researcher, National Renewable Energy Laboratory, Golden, CO
2014-2018	Graduate Research Assistant, University of Wisconsin – Madison, Madison, WI
2012-2014	Graduate Teaching Assistant, Northern Arizona University, Flagstaff, AZ
2007-2011	Engineer, Sr. Project Manager, Nexant, Inc., Madison, WI

Summary of Accomplishments:

- *Teaching*

Dr. Dyreson has contributed significantly to introductory courses in mechanical engineering as well as development of elective courses in her specialization of energy analysis. She has taught Introduction to Thermodynamics five times and serves as the course coordinator across 2-3 sections per semester. In this course she has created active learning materials and leveraged technology including virtual reality and increased use of software for learning thermodynamic properties. Teaching evaluation scores in this course ranged from 4 to 4.5 across sections from 40-80+ students and even during the challenges of the COVID restrictions. Dyreson also co-teaches mechanical engineering practice II, a large-enrollment, lab-based course. Dyreson has developed a course on solar energy engineering which includes project-based learning with real energy monitoring from on-campus solar energy systems. She also regularly guest lectures about solar energy and energy system resilience in courses outside of her department.

- *Research/Scholarly Activity*

Dr. Dyreson's research team is established in the areas of electric power system resilience, electrification of home heating, and solar photovoltaic performance for snow. As of September 2025, Dyreson has been PI or Co-PI on 14 funded projects, leading nine of them. Since joining Michigan Tech Dyreson has been an active user and advocate for the Michigan Solar Regional Test Center on Emerging Energy Technologies, a DOE designated test site for photovoltaics (PV) research. Dyreson has expanded this site's capabilities with a large single-axis tracking system through a partnership with industry, and leveraged this system to test new strategies for reducing snow cover on PV systems. External funding for her research program has included the Alfred P. Sloan Foundation, Sandia National Laboratory, Department of Energy, Power Systems Engineering Research Consortium, National Science Foundation, and Michigan Economic Development Corporation. In August 2025 the National Science Foundation funded a project led by

Dyreson on electric power system resilience to winter weather. This new NSF project leverages her past work on electricity resilience, solar PV performance in the winter, and electrification of home heating systems. This and other current and pending projects demonstrate strong collaborations within Michigan Tech and with external partners, towards the goal of advancing energy system resilience at local-to-regional scales. Dyreson's interests in energy and sustainability research are aligned with campus initiatives as reflected by her role as a campus convener for the Tech Forward 2.0 Critical Resources for the Future theme.

- *Service*

Dr. Dyreson has been active in the MultiSector Dynamics community of practice since its inception in 2020, including on the Scientific Steering Group and as Working Group Co-Chair. Dyreson acts as chair and co-chair of conference sessions at the American Geophysical Union Annual Meeting and the INFORMS Annual Meetings. She has also participated in industry working groups with the Energy Systems Integration Group and Electric Power Research Institute.

In addition to serving on hiring committees and as occasional volunteer for GSG and other campus events, Dyreson co-chaired the Advocates and Allies Advisory Board in Fall 2024, co-led a teaching discussion group during academic year 2022-2023, and participates in discussion groups and research development through the Institute for Sustainability and Resilience. Beginning in Fall 2024, Dyreson serves as Associate Director for Research in the Center for Innovation in Sustainability and Resilience (CISR). Through CISR, Dyreson supports ongoing research development at Michigan Tech on interdisciplinary topics that affect energy system sustainability and resilience.

- *Recent and Significant Publications/Exhibitions/Performances/Etc.*

Dr. Dyreson is co-author on the foundational publication of the MultiSector Dynamics Community of Practice published in the journal Earth's Future in 2022. Five publications on electric power system resilience that Dyreson authored or co-authored were cited in the 5th National Climate Assessment in 2023. Notable conference presentations over the last three years include Dyreson's talks on winter resilience and solar PV performance in snow at the 2024 INFORMS Annual Meeting in Seattle, WA, the 2024 Photovoltaics Performance Modeling Workshop in Salt Lake City, Utah, and as co-author with PhD student lead authors on presentations at the 2023, 2024, and 2025 IEEE Photovoltaic Specialists Conferences. Dyreson has also presented her work in invited academic talks to the Biological and Environmental Engineering Department at Cornell University in Ithaca, New York, the Department of Energy Technology at KTH University in Stockholm, Sweden, and the Institute for Policy Integrity New York University (online), and the United States Energy Association (online).

INFORMATION SHEET FOR BOARD OF TRUSTEES
SUSANTA GHOSH
Michigan Technological University

Susanta Ghosh, who is currently an assistant professor of Solid Mechanics without tenure in the Department of Mechanical and Aerospace Engineering in the College of Engineering, is being considered for promotion to associate professor of Solid Mechanics with tenure in the Department of Mechanical and Aerospace Engineering in the College of Engineering.

Academic Degrees:

Ph.D.	2008	Indian Institute of Science, Bangalore, India
M.S.	2003	Indian Institute of Science, Bangalore, India
B.S.	2000	Indian Institute of Engineering Science and Technology, Shibpur, India

Professional Record:

2019 – present	Assistant Professor (without tenure), Department of Mechanical and Aerospace Engineering, Michigan Technological University
2016 – 2019	Research Assistant Professor and Instructor, Department of Mechanical Engineering - Engineering Mechanics, Michigan Technological University
2016 – 2016	Visiting Research Investigator, Department of Materials Science, University of Michigan, Ann Arbor, MI
2014 – 2015	Associate in research, Department of Civil and Environmental Eng., Duke University, Durham, NC
2011 – 2014	Postdoctoral Research Fellow, Department of Aerospace Eng., and Department of Materials Sc., University of Michigan, Ann Arbor, MI
2009 – 2011	Postdoctoral Scholar, Department of Applied Mathematics, Technical University of Catalunya, Barcelona, Spain
2004 – 2008	Graduate Research Assistant, Indian Institute of Science, Bangalore, India
2001 – 2003	MS student, Indian Institute of Science, Bangalore, India

Summary of Accomplishments:

- *Teaching*

Susanta Ghosh has demonstrated excellence in teaching and innovation through a broad range of graduate and undergraduate courses. At the graduate level, he developed and introduced a new course, Machine Learning for Engineering—a rare offering in U.S. engineering programs that integrates artificial intelligence into engineering education. His graduate teaching also includes Finite Element and Variational Methods in Engineering, Intermediate Dynamics, and the Continuum Mechanics. At the undergraduate level, he taught Mechanics of Materials, Intermediate Mechanics of Materials, Engineering Biomechanics, and Introduction to Finite Element Methods. Over the past three years, his courses have consistently received average student evaluation scores above four on a five-point scale, reflecting consistent teaching effectiveness. His ability to teach across three distinct subfields demonstrates exceptional versatility. The creation of a graduate-level artificial intelligence course specifically tailored for engineers highlights his commitment to curricular innovation and student preparation for emerging frontiers in engineering. His records evidence strong teaching quality, innovation, and significant potential for continued excellence in teaching.

This Information Sheet Should Not Exceed Two Pages in Length

- *Research/Scholarly Activity*

Susanta Ghosh has published 33 journal articles in top-tier venues spanning Computational Mechanics, Computational Materials Science, Artificial Intelligence (AI), and Uncertainty Quantification, demonstrating both exceptional depth and breadth of scholarship. Notably, he has published four papers in Computer Methods in Applied Mechanics and Engineering, ranked first among 89 journals in Engineering: Computational Mechanics, and five papers in journals with impact factors near 10 or higher—an outstanding achievement in his field. His research has garnered over 1,400 citations, underscoring its influence, and has been recognized through invitations to present at prestigious international conferences, including the US Association for Computational Mechanics (UCLA, 2023) and the SIAM Conference on Mathematical Aspects of Materials Science (Pittsburgh, 2024). He has also contributed to high-level national panels, such as the 2024 Department of Energy (DOE) Theoretical Condensed Matter Physics Principal Investigators' Meeting and the 2022 National AI Research Resource Task Force, a federal advisory committee. His accomplishments have been further recognized with the National Science Foundation (NSF) CAREER Award (2025) and the 2023 Research Achievement Award from Michigan Tech's Institute of Computing and Cybersystems, honoring his pioneering contributions in computational mechanics and machine learning. As principal investigator, Dr. Ghosh has secured two NSF grants (from core programs) and a highly competitive DOE award in Theoretical Condensed Matter Physics, totaling over $1.2 million (additional approximately $0.4 million is approved from DoE, recently)—an excellent record for a theoretical and computational scientist. He has graduated four Ph.D. students, two of whom have advanced to leading industry positions at MathWorks and Apple, while the others have pursued postdoctoral research at Johns Hopkins University and Idaho National Laboratory. Collectively, this record highlights Dr. Ghosh's research impact, leadership, innovation, and deep commitment to preparing the next generation of scholars and professionals. His research is well aligned with MTU's strategic plans on AI, Computational Science, and Materials Discovery.

- *Service*

Susanta Ghosh has established a strong record of national and international service through proposal review for NSF, DOE, NASA, ARO, Swiss-NSF, and participation on federal advisory committees such as the National AI Research Resource Task Force. He has organized and chaired symposia, workshops, and student competitions at premier international conferences and serves in elected leadership roles within US-Association for Computational Mechanics. At Michigan Tech, he has contributed as Interim Graduate Program Director and advisory council member for Computational Science & Engineering, as a member in Graduate Program committee and Faculty development committee, in Graduate Seminar, and by leading STEM outreach. His open-source code releases further benefit the global research community. He demonstrates exceptional promise for continued leadership and service at all levels.

- *Recent and Significant Publications*

[1] P. Thiagarajan, S. Ghosh, "Jensen–Shannon divergence based novel loss functions for Bayesian neural networks", Neurocomputing 618, 129115 (2025). Rank 10/441 journals in Artificial Intelligence.
[2] R. Mattey, S. Ghosh, "Gradient flow based phase-field modeling using separable neural networks", Computer Methods in Applied Mechanics and Engineering 439, 117897 (2025). Rank 1/89 journals in Engineering: Computational Mechanics.
[3] S. Pathrudkar, P. Thiagarajan, S. Agarwal, A.S. Banerjee, S. Ghosh, "Electronic structure prediction of multi-million atom systems through uncertainty quantification enabled transfer learning." npj Computational Materials, 10, 175 (2024). Rank 3/319 journals in Mathematics: Modeling and Simulation.
[4] P. Thiagarajan, P. Khairnar, and S. Ghosh, "Explanation and Use of Uncertainty Quantified by Bayesian Neural Network Classifiers for Breast Histopathology Images," in IEEE Transactions on Medical Imaging, pp. 815, Vol. 41, (4), 2022. Rank 17/813 journals in Computer Science: Computer Science Applications.

INFORMATION SHEET FOR BOARD OF TRUSTEES
Yixin Liu
Michigan Technological University

Yixin Liu, who is currently an assistant professor of chemical engineering without tenure in the Department of Chemical Engineering in the College of Engineering, is being considered for promotion to associate professor of chemical engineering with tenure in the Department of Chemical Engineering in the College of Engineering.

Academic Degrees:

Ph.D.	2014	University of Connecticut, Storrs, CT
B.S.	2010	Zhejiang University, China

Professional Record:

2020 – present	Assistant Professor (without tenure), Department of Chemical Engineering, Michigan Technological University
2018 – 2019	Senior Research Scientist, ABB US Corporate Research Center, Bloomfield, CT
2014 – 2018	Research Scientist, ABB US Corporate Research Center, Bloomfield, CT
2010 – 2014	Graduate Research Assistant, Department of Chemical & Biomolecular Engineering, Institute of Materials Science, University of Connecticut, Storrs, CT

Summary of Accomplishments:

- *Teaching*

Dr. Liu has taught core undergraduate courses in chemical engineering, including Material and Energy Balance, Transport and Unit Operations I, and Stagewise Separation Processes, as well as mentoring through research credits and undergraduate research. Over the past three years, her student evaluations have been consistently strong (average scores 4.1-4.6/5), with students highlighting clarity, organization, enthusiasm, and effective integration of active learning tools such as iClickers, structured notes, and practice exams. Peer evaluations also emphasized strong student engagement and effective use of instructional tools. She actively mentors seven Ph.D. students and has supervised 13 undergraduate researchers to date, often pairing undergraduates with graduate mentors to create a layered mentorship model. In 2025, Dr. Liu was honored with the Research Mentor of the Year Award by undergraduate students, a recognition that reflects her commitment to student learning and professional growth.

- *Research/Scholarly Activity*

Dr. Liu's research focuses on advanced chemical and biosensing platforms, integrating nanoengineered materials, multimodal transduction, and machine learning-driven analysis. Since joining Michigan Tech, she has secured about $1 million in external/internal funding from NSF, USDA, DOE, and translational programs such as MTRAC. Recent awards include a DOE-supported project on ppb-level hydrogen detection for energy infrastructure and a MTRAC award advancing a wearable glucose sensor toward commercialization. Liu has published 10 peer-reviewed journal articles and 2 conference proceedings at MTU, with recent papers in *Biosensors & Bioelectronics* (IF 10.5), *ACS Applied Materials & Interfaces* (IF 8.5), *ACS Sensors* (IF 9.1), and *Sensors & Actuators B: Chemical* (IF 7.7). These publications demonstrate impact in sensor research across healthcare, food safety, and energy. Her group's work has been recognized within MTU, as well as nationally and internationally through competitive student fellowships, poster awards, invited talks, and an IEEE

Sensors 2025 entrepreneurship pitch finalist selection. Looking forward, her goal is to develop low-cost, adaptable sensing platforms that bridge fundamental research with deployment needs, advancing a broader vision of intelligent systems equipped with real-time, molecular-level awareness. This research directly supports Michigan Tech's Tech Forward Initiatives in Advanced Materials and Manufacturing, Health and Quality of Life, Autonomous and Intelligent Systems, and Data Revolution and Sensing.

- *Service*

Dr. Liu actively contributes at the departmental, university, and professional levels. At MTU, she serves on the Curriculum Committee, coordinates departmental seminars/poster sessions, and have led the Summer Youth Program since 2022, providing experiment-based STEM outreach to middle/high school students. University-level service includes the Outreach Council member, supporting broader participation in STEM. Nationally, Dr. Liu serves as an Early Career Editorial Board Member for *Sensors and Actuators Reports*, chair sessions at AIChE and IEEE Sensors, and review proposals for federal agencies. Liu also leads K-12 outreach, such as hosting hands-on activities for local STEAM Saturday events.

- *Recent and Significant Publications/Exhibitions/Performances/Etc.*

[1] I. Chapa[#], G. Dykstra[#], A. Fungura[#], N. Krakhaleva[#], A. Minerick, **Yixin Liu***, Aging the Imprint: Enhanced Performance of a Silver Prussian Blue Analogue–MIP Electrochemical Sensor for Sulfamethoxazole Detection in Milk, ***ACS Sensors* (IF: 9.1)**, In Press. DOI: 10.1021/acssensors.5c02385.

[2] A. Fungura[#], **Yixin Liu***, Electrospun ZnO/$CoMoO_4$/$ZnCo_2O_4$ Composite Nanofibers for Highly Selective Sub-ppm n-Butanol Sensing, ***Sensors and Actuators B: Chemical* (IF: 7.7)**, 2025, 444, 138351, DOI: 10.1016/j.snb.2025.138351

[3] G. Dykstra[#], V. Vera[#], I. Chapa[#], S. Rao, **Yixin Liu*,** Engineering Electropolymerized Molecularly Imprinted Polymer Films for Redox-Integrated, Reagent-Free Cortisol Detection: The Critical Role of Scan Rate, ***Biosensors and Bioelectronics* (IF: 10.5)**, 2025, 286, 117623, DOI: 10.1016/j.bios.2025.117623.

[4] R. Sylvain[#], G. Dykstra[#], A. Fungura[#], S. Rao, **Yixin Liu***, In-situ Electrochemical Synthesis of Ni/$Ni(OH)_2$/Molecularly Imprinted Polymer Nanocomposite for High-Performance Glucose Detection. ***Sensors and Actuators B: Chemical* (IF: 7.7)**, 2025, 424, 136921, DOI: 10.1016/j.snb.2024.136921

[5] R. Sylvain[#], T. Waslawski[+], V. Vera[#], G. Dykstra[#], G. Heintz[+], S. Rao, **Yixin Liu***. Optimization and Application of Laser-Induced Graphene Electrodes with Nickel Hydroxide Nanoparticles for Ultrasensitive Non-Enzymatic Glucose Sensing. ***2024 IEEE Sensors***.

DOI: 10.1109/SENSORS60989.2024.10784638

[6] G. Dykstra[#], I. Chapa[#], **Yixin Liu***. Reagent-Free Lactate Detection Using Prussian Blue and Electropolymerized-Molecularly Imprinted Polymers-Based Electrochemical Biosensors. ***ACS Applied Materials & Interfaces* (IF: 8.5)**, 2024, DOI: 10.1021/acsami.3c19448.

[7] **Yixin Liu***, Grace Dykstra[#], Recent progress on electrochemical (bio)sensors based on aptamer-molecularly imprinted polymer dual recognition (invited article), ***Sensors and Actuators Reports* (IF: 7.6)**, 2022, 4,100112. DOI: 10.1016/j.snr.2022.100112.

[8] G. Dykstra[#], B. Reynolds[+], R. Smith[+], K. Zhou, **Yixin Liu***, Electropolymerized Molecularly Imprinted Polymer Synthesis Guided by An Integrated Data-Driven Framework for Cortisol Detection, ***ACS Applied Materials and Interfaces* (IF: 8.5)**, 2022, 14, 22, 25972–25983, DOI: 10.1021/acsami.2c02474. (Supplementary Cover).

[9] K. Zhou, **Yixin Liu***, Early-Stage Gas Identification Using Convolutional Long Short-Term Neural Network with Sensor Array Time Series Data, ***Sensors* (IF: 3.7),** 2021, 21(14), 4826, DOI: 10.3390/s21144826.

INFORMATION SHEET FOR BOARD OF TRUSTEES
Vijaya V N Sriram Malladi
Michigan Technological University

Vijaya V. N. Sriram Malladi, currently an assistant professor without tenure in the Department of Mechanical and Aerospace Engineering at the College of Engineering, is being considered for promotion to associate professor with tenure in the Department of Mechanical and Aerospace Engineering in the College of Engineering.

Academic Degrees:

Ph.D.	2016	Virginia Polytechnic Institute and State University, USA
M.S.	2013	Virginia Polytechnic Institute and State University, USA
B.S.	2011	Indian Institute of Technology (ISM) - Dhanbad, India

Professional Record:

2019 – present	Assistant Professor (without tenure), Department of Mechanical and Aerospace Engineering, Michigan Technological University
2016 – 2019	Post-Doctoral Research Scientist, Virginia Polytechnic Institute and State University
2016 – 2017	CEO and Chief Research Scientist, GAiTE LLC
2011 – 2016	Graduate Research Assistant, Department of Mechanical Engineering, Virginia Tech, Blacksburg, Virginia

Summary of Accomplishments:

● *Teaching*

Dr. Malladi has established a strong record of teaching excellence, consistently emphasizing active learning, student engagement, and applied problem solving. His teaching integrates whiteboard derivations, MATLAB-based simulations, hands-on labs, and semester-long projects to create inclusive and practice-oriented classroom environments. His commitment to instructional quality has been recognized at the university level. In Fall 2021, he was formally identified as being in the top 10% of instructors across Michigan Tech, based on student evaluations of teaching effectiveness. Beyond individual course innovations, Dr. Malladi has been instrumental in restructuring and aligning the NVH curriculum, creating a streamlined progression of concepts from structural dynamics at the junior level, into vibrations at the senior level, and onward to modal analysis, signal processing, graduate-level vibrations, and wave propagation. These efforts eliminated redundancies, clarified prerequisites, and provided students with a coherent pathway that balances fundamental principles with applied methods. His record reflects innovation, responsiveness to student feedback, and excellence in curriculum development, with clear potential for continued contributions that enhance student learning and have a significant impact on the curriculum.

● *Research/Scholarly Activity*

Dr. Malladi has built a nationally visible research program advancing vibrations and wave–structure interactions, integrating multiphysics modeling, data-driven analytics, and experimental validation. Since 2019, his group has produced 18 journal articles, 24 peer-reviewed conference proceedings, and graduated two PhD students and seven MS students, while mentoring six current graduate researchers. His funded portfolio exceeds $1.5M, contributing to Michigan Tech's transition to R1 status. His

scholarship has been recognized through multiple ASME awards (Best Symposium Paper 2023, Student Conference Paper Award 2024, Best Paper Award 2013, Best Hardware Paper Award 2014) and leadership service as Chair/Co-Chair of ASME's Adaptive Systems Dynamics and Controls Committee. His work spans aerospace, energy, healthcare, and manufacturing, yielding both fundamental advances and real-world technologies such as adaptive metastructures, hydraulic noise suppression, cochlear-inspired devices, and floor vibration–based health monitoring. Looking forward, his vision to unify vibroacoustic manipulation across scales and regimes aligns directly with MAE's strategic goals of interdisciplinary research, industry engagement, and student-centered training, demonstrating strong potential for continued excellence and leadership in research and scholarship

● *Service*

Dr. Malladi has developed a strong record of service at the departmental, university, and professional levels, with clear potential for continued excellence. At Michigan Tech, he has contributed to curricular committees, laboratory preparation, student organizations, and outreach, including three years as faculty advisor for the Indian Students Association, where he provided critical support during the COVID-19 crisis and helped expand faculty engagement in major cultural events. He has also led Summer Youth Program sessions, designing interactive STEM demonstrations that engage pre-college students. Nationally and internationally, he has advanced his field through progressive leadership roles in the ASME Adaptive Structures and Material Systems Technical Committee (Secretary, Co-Chair, and Chair), organizing best paper awards, and chairing technical sessions at conferences. He is a regular reviewer for NSF DCSD proposals, internal MTU seed grant programs, and at least 10 journal manuscripts annually. Collectively, these contributions demonstrate his commitment to student success, professional leadership, and the advancement of his discipline, positioning him for sustained and expanding impact in service at all levels.

● *Recent and Significant Publications/Exhibitions/Performances/Etc.*

Gosavi, H. & Malladi, V. V. N. S. (2025). *Data-driven identification of bandgaps in flexural metastructures using Component Mode Synthesis and FRF Based Substructuring*. *Mechanical Systems and Signal Processing*, 7.9 IF. DOI: 10.1016/j.ymssp.2025.112470.

Chavan, S. H., Malladi, S. S., & Malladi, V. V. N. S. (2023). *Bistable DVR meta-structure: A reinforcement learning approach to vibration control*. *Journal of Sound and Vibration*, 4.9 IF. DOI: 10.1016/j.jsv.2025.119068.

Chavan, S. H., Malladi, V. V. N. S. (2023). *Development of a Basilar Membrane-Inspired Mechanical Spectrum Analyzer Using Metastructures for Enhanced Frequency Selectivity*. *Actuators*. DOI: 10.3390/act14020063.

Gosavi, H. & Malladi, V. V. N. S. (2023). *Estimation of Elastic Bandgaps in Metastructures: A Comparison of Physics-Based and Data-Driven Approaches*. *Mechanical Systems and Signal Processing*, 8.934 IF. DOI: 10.1016/j.ymssp.2023.110622.

Chavan, S. H., Malladi, V. V. N. S. (2023). *Reinforcement learning approach of switching bi-stable oscillators to adapt bandgaps of 1D-meta-structures*. *Mechanical Systems and Signal Processing*, 8.934 IF. DOI: 10.1016/j.ymssp.2023.110151.

INFORMATION SHEET FOR BOARD OF TRUSTEES
HODA HATOUM
Michigan Technological University

Hoda Hatoum, who is currently an assistant professor of Biomedical Engineering without tenure in the Department of Biomedical Engineering in the College of Engineering, is being considered for promotion to associate professor of Biomedical Engineering with tenure in the Department of Biomedical Engineering in the College of Engineering.

Academic Degrees:

Ph.D.	2018	The Ohio State University, Columbus, OH
M.S.	2018	The Ohio State University, Columbus, OH
B.S.	2009	The American University of Beirut, Beirut, Lebanon

Professional Record:

2020 – present	Assistant Professor (without tenure), Department of Biomedical Engineering, Michigan Technological University
2020 – 2020	Post-Doctoral Fellow, Georgia Institute of Technology, Atlanta, GA
2018 – 2019	Post-Doctoral Fellow, The Ohio State University, Columbus, OH
2015 – 2018	Graduate Research Assistant, Department of Mechanical Engineering, The Ohio State University, Columbus, OH
2015 – 2015	Graduate Research Assistant, Department of Mechanical Engineering, Colorado State University, Fort Collins, CO
2009 – 2014	Mechanical Engineer, Dar Group, Beirut, Lebanon

Summary of Accomplishments:

- *Teaching*

Teaching and mentoring have been central to Dr. Hatoum's role at Michigan Tech, where she combines rigor, accessibility, and innovation to prepare students at all levels for success in industry, graduate school, and medicine. She has taught core and technical elective courses, including Biomechanics II and Cardiovascular Engineering, and advised ten senior design teams. Each year, she revises her courses in response to student feedback, to ensure that the courses remain engaging, inclusive, and relevant. Her teaching emphasizes active learning and real-world application: structured handouts, fill-in-the-blanks notes, group discussions, case-based "play doctor" activities, and the use of multimedia resources connect theory with clinical and engineering practice. To make difficult topics approachable, she incorporates hands-on demonstrations, such as using springs and slime to illustrate constitutive modeling. She also encourages student ownership of learning through policies such as "freedom from the grade," which allow revision and reflection. She also integrates forward-looking practices, such as generative AI literacy assignments, and emphasizes inclusivity by highlighting physiological and disease-specific differences across populations to illustrate broader engineering impacts. Her teaching contributions have been recognized through nomination to the Dean's Teaching Showcase (2025). Beyond the classroom, she mentors students in research and outreach, enabling them to earn fellowships, awards, and publications. She is committed to building on these efforts to continually enhance learning and inspire the next generation of engineers and scientists.

- *Research/Scholarly Activity*

Since joining Michigan Tech in 2020, Dr. Hatoum has established the Biofluids Lab as a leading group in cardiovascular biofluid dynamics, with a focus on patient-specific modeling, medical device design, and translational applications in heart valve disease, arrhythmias, and pediatric cardiovascular conditions mainly Kawasaki Disease.

This Information Sheet Should Not Exceed Two Pages in Length

Her research integrates advanced experimental methods with computational approaches to address complex, clinically relevant questions in collaboration with national and international clinical partners such as Mayo Clinic, Nationwide Children's Hospital, Copenhagen University Hospital, etc. Her research program at Michigan Tech has produced >26 peer-reviewed publications (24 as corresponding author), four major external grant awards as sole PI (NSF, NIH, AHA Career Development, AHA Innovative Project), and over $1M in funding. Her team's work has generated impactful findings: identifying post-heart valve implantation hemodynamic mechanisms that may require revisions to blood pressure guidelines and patient-specific intervention strategies; developing a validated predictive model for clotting risk in Kawasaki Disease that extends beyond current adopted clinical criteria; uncovering flow-based mechanisms of residual stroke risk in atrial fibrillation patients after left atrial appendage occlusion; and creating non-Newtonian blood analogs that improve in-vitro testing fidelity. Ongoing projects include mitral valve device design and large animal model development. She has trained 4 PhD, 5 MS, and 23+ undergraduate students. Many of them secured competitive fellowships, national awards, and industry positions. Her students have published 20 journal papers (18 first-authored), won institutional and external fellowships, and earned top placements in national competitions. Her contributions have been recognized with the Gordon Research Conference (GRC) Young Investigator Award (2023), the ASME Grood Interdisciplinary Team Science Medal (2024), and the GRC Connector Award (2025). She was among the top 6 at the American College of Cardiology Young Investigator Award (ACC 2021), and her team was among the top 3 at the ACC Heart Tank competition (2024). Looking forward, her research aligns with Michigan Tech's and the BME Department's strategic goals of advancing health technologies and translational research. By expanding interdisciplinary collaborations and leveraging cutting-edge fluid-structure and patient-specific modeling, she aims to shape clinical guidelines and device design while continuing to train future leaders in biomedical engineering.

- *Service*

Dr.Hatoum has actively contributed to service at Michigan Tech through departmental and university committees, chairing and coordinating the weekly research seminar series, and mentoring students in programs that support underrepresented and transfer students (McNair, MiCUP). She is a member of several university institutes, and she served on several university committees. Nationally and internationally, she serves as communications and outreach specialist for the American Society of Mechanical Engineers (ASME)'s Bioengineering Division, track chair for BMES Cardiovascular Engineering, and associate editor for Annals of Biomedical Engineering. She reviews grants for NIH, NSF, AHA, and international agencies, and manuscripts for leading journals. Her outreach includes developing K-12 biomedical engineering workshops, that reflects her commitment to advancing inclusion, community engagement, and global impact. These roles demonstrate her commitment to advancing inclusion, engagement, and scholarly impact, and she is well positioned to expand these contributions in the future. More is described in her service statement.

- *Recent and Significant Publications/Exhibitions/Performances/Etc.*
  - Vogl, Brennan J., et al. "Flow Dynamic Factors Correlated With Device-Related Thrombosis After Left Atrial Appendage Occlusion." JACC: Advances 3.11 (2024): 101339.
  - Vogl, Brennan, et al. "Effect of aortic curvature on bioprosthetic aortic valve performance." Journal of Biomechanics 146 (2023): 111422.
  - Asadbeygi, Alireza, et al. "Predicting hemodynamic indices in coronary artery aneurysms using response surface method: An application in Kawasaki disease." Computer Methods and Programs in Biomedicine 224 (2022): 107007.
  - Vogl, Brennan, et al. "Effect of blood pressure levels on sinus hemodynamics in relation to calcification after bioprosthetic aortic valve replacement." Annals of biomedical engineering 52.4 (2024): 888-897.
  - Bshennaty, Ahmad, et al. "Comparison of Flow Dynamics After Left Atrial Appendage Occlusion With the Watchman FLX Versus Amulet Devices: Implications for Device-Related Thrombosis." Catheterization and Cardiovascular Interventions (2025).
  - Vogl, Brennan J., et al. "Flow dynamic differences between Kawasaki Disease patients with coronary artery aneurysms and ectasia." Journal of Cardiovascular Computed Tomography (2025).

INFORMATION SHEET FOR BOARD OF TRUSTEES
Stephanie A. Carpenter
Michigan Technological University

Stephanie A. Carpenter, who is currently an assistant professor of creative writing without tenure in the Department of Humanities in the College of Sciences and Arts, is being considered for promotion to associate professor of creative writing with tenure in the Department of Humanities in the College of Sciences and Arts.

Academic Degrees:

Ph.D.	2010	University of Missouri, Columbia, MO
MFA	2003	Syracuse University, Syracuse, NY
BA	1998	Williams College, Williamstown, MA

Professional Record:

2020 – present	Assistant Professor (without tenure), Department of Humanities in the College of Sciences and Arts, Michigan Technological University
2017-2020; 2013-2017	Senior Lecturer/Lecturer, Department of Humanities in the College of Sciences and Arts, Michigan Technological University
2010-2013	Assistant Professor (without tenure), Department of English in the College of Arts and Sciences, University of Michigan-Flint
2005 – 2010	Graduate Teaching Assistant, Department of English, College of Arts and Science, University of Missouri

Summary of Accomplishments:

- *Teaching*

Dr. Carpenter teaches both creative writing and literature courses. Her pedagogy emphasizes practice-based learning and classroom discussion, helping all students develop the analytical and creative skills essential to civic engagement. Since joining the faculty in 2013, Dr. Carpenter has designed and taught 17 unique courses, with an especially varied teaching portfolio since being hired to the tenure-track in 2020. Her curriculum innovations include developing the Workshop in Science Fiction, which uses the tools of fiction-writing to foster ethical and critical reflection on science and technology.

Dr. Carpenter also teaches and mentors students in the Humanities Department's graduate program. Her recent Graduate Workshop in Nonfiction placed in the top 10% of college-wide course evaluations. She has served on two doctoral committees and advised multiple graduate independent studies.

Dr. Carpenter's dynamic teaching supports the College of Science and Arts mission of offering transformative education that prepares students to engage with contemporary challenges. Her overall "average of seven dimensions" teaching evaluation score is an exceptional 4.6/5; her creative writing courses average 4.75/5. In 2025, she was nominated to the Deans' Teaching Showcase.

- *Research/Scholarly Activity*

In her recent book projects, Dr. Carpenter crafts historical scenarios to explore contemporary questions about gender, power, spirituality, and environmentalism. Her debut novel, *Moral Treatment* (Central Michigan University Press, 2025), winner of the Summit Series Prize, examines psychiatric care and women's agency in the 19th century. The book received national acclaim, including reviews in *The New*

York Times and *Kirkus*. Her completed book, *Many and Wide Separations: Two Novellas*, depicts two very different models of women's creativity and empowerment in mid-19th century New England. The work is represented by the Nordlyset Literary Agency and is currently on submission to publishers. (Dr. Carpenter's first book, *Missing Persons* [2017], won the Press 53 Prize for Short Fiction).

Since 2020, Dr. Carpenter has also published five short stories in prominent literary magazines, with a sixth forthcoming; three works of creative nonfiction; two book reviews, with a third forthcoming; and 14 features and interviews related to *Moral Treatment*. A novella-in-progress, "Water Rites," explores eco-speculative themes in a post-apocalyptic Midwest; she's also at work on a linked collection of short stories, tracing Anthropocentric change across 200 years in the Keweenaw.

Dr. Carpenter regularly presents academic conference papers on intentional communities and environmental literature. Her creative activities and interdisciplinary scholarship support the College of Arts and Science's mission to foster cultural understanding and civic engagement.

- *Service*

Dr. Carpenter's service contributions are extensive. As director of the English BA program since 2023, she led a revision of the degree to improve career-readiness. She currently serves on the Dean's Applied Humanities Ideation Team; the Rhetoric, Theory, and Culture Graduate Program Advisory Committee; the HU Steering Committee; the Diversity Studies Committee; and as HU Library Liaison. In Fall 2025, she was elected to the HU Chair Search Committee; she served on four previous faculty search committees.

At the college level, she served on the committees to create Essential Education minors in Creative Expression and Global Cultures. University-wide, she served on the NSF-funded Advocates & Allies Advisory Board (2020–23), which promoted an inclusive faculty climate, and serves on the planning committee for the annual Art in Silico event series.

Nationally, Dr. Carpenter serves on the Board of Directors of the Communal Studies Association. She is a regular guest editor, judge, or jurist for literary journals, contests, and residencies. Locally, she is President of the Board of Directors of the Copper Country Community Arts Center.

- *Recent and Significant Publications/Exhibitions/Performances/Etc.*

o ***Moral Treatment*: *A Novel*. Central Michigan University Press (February 25, 2025)**
Moral Treatment is a work of literary-historical fiction. It is the inaugural winner of CMICH Press's Summit Series Prize, awarded in 2024 to a book of fiction with a Michigan connection.

o **"Rumplestilkskins." *Laurel Review*. Vol. 58, No. 1 (Forthcoming, 2025): 23-34.**
The story is a triptych of contemporary retellings of the titular fairy-tale. Published by Northwest Missouri State University, *Laurel Review* is a peer-edited journal ranked 108/500 among top markets for fiction, based on frequency of Pushcart Prize nominations.

o **"Sm!le Island." *Copper Nickel*. Issue 37 (Fall 2023): 106-123.**
"Sm!le Island" is a speculative short story about greed, space aliens, and multi-level marketing. Published by the University of Colorado Denver, *Copper Nickel* is a peer-edited journal ranked 37/500 for fiction. The story was nominated for a Pushcart Prize.

o **"Phase Five." *Ecotone*. Issue 31. ("Climate" issue; Fall/Winter 2021): 64-82.**
"Phase Five" is a story about ecological alienation, set during the COVID-19 lock-down. Published by the University of North Carolina Wilmington, *Ecotone* is a peer-edited journal ranked 34/500 for fiction. Carpenter was also solicited to write a "climate postcard," which was published on *Ecotone*'s Twitter account on 23 April 2023.

INFORMATION SHEET FOR BOARD OF TRUSTEES
Trista J. Vick-Majors
Michigan Technological University

Trista J. Vick-Majors, who is currently an assistant professor of biology without tenure in the Department of Biological Sciences in the College Science and Arts, is being considered for promotion to associate professor of biology with tenure in the Department of Biological Sciences in the College of Science and Arts.

Academic Degrees:

Ph.D.	2016	Montana State University, Bozeman, MT
M.S.	2010	Montana State University, Bozeman, MT
B.S.	2003	Colorado College, Colorado Springs, CO

Professional Record:

2019 – present	Assistant Professor (without tenure), Department of Biological Sciences, Michigan Technological University
2017-2019	Postdoctoral Research Associate, University of Montana
2016-2017	Postdoctoral Research Associate, University of Quebec, Montreal, Canada

Summary of Accomplishments:

- *Teaching*

Dr. Vick-Majors has contributed substantially to the teaching mission of the Department of Biological Sciences, including instruction of General Microbiology, Limnology, Microbial Ecology, and Senior Capstone courses, as well as multiple guest lectures in other courses. She developed Microbial Ecology as a new course, and it exemplifies her approach to active learning by engaging students directly with the material based on pre-work completed outside of class ("flipped" modality). Dr. Vick-Majors intentionally tunes her teaching approaches to the needs of the broad range of students who take her courses from across the University (CSA, COE, CFRES) by incorporating hands-on data analysis, writing, and discussion. Her efforts to actively engage students is widely praised in peer reviews and reflected in student evaluations (avg. >4.5). She has been listed in the top 10% of instructors on campus twice, including Spring 2025 in the top 1%. She also received a commendation letter from the Provost's office for excellence in transitioning to online teaching during the COVID-19 pandemic, reflecting her agility as an instructor and capable handling of classroom technology. Dr. Vick-Majors conducted extracurricular teaching by leading undergraduate students on a unique, field-camp based Research Experience for Undergraduates in Greenland in 2024. She continues to enhance her teaching through workshop participation and engagement in course development; most recently, contributing to a new program led by the Office of Sustainability. This curriculum work contributes to the "Sustainability and Resilience" focus in Michigan Tech's Strategic Plan, and Dr. Vick-Majors' active classroom approach to preparing students for the workforce addresses the College Strategic Priority to "Prepare students for forward-looking careers by offering cutting-edge…programs designed to address a broad spectrum of societal challenges while grappling with the complexity and diversity of the contemporary technological world."

- *Research/Scholarly Activity*

Dr. Vick-Majors has brought in over $4.5 million in research grants and contracts, with over $1.5 million as lead PI, from a broad range of agencies including NSF, NOAA, DARPA, and MI Sea Grant. Her work has resulted in invited presentations at conferences like the American Geophysical Union Fall Meeting (the

largest international Earth Sciences meeting) and speaking invitations to 7 universities across the U.S. since 2020. Dr. Vick-Majors currently advises 4 Ph.D. students and 1 M.S. student and has converted 1 M.S. student to a Ph.D. student. She has served on 7 Ph.D. and 6 M.S. student committees at MTU, and 2 external Ph.D. committees (Canada and Australia). Additionally, she has supervised 25 undergraduate researchers who have gone on to graduate school, professional positions at U.S. National Labs and regional water conservation programs, and she currently supports via NSF funding a post-baccalaureate scholar who is an MTU graduate. Dr. Vick-Majors' work also generates interest from the press, with 5 stories on her Great Lakes winter studies in 3 years, including an Associated Press piece that was picked up by >300 national news outlets, and international interest from BBC Radio 4 in a 2025 series where she spoke about her Antarctic research. Her research and scholarly activities include work on Earth's largest ice mass (Antarctica) and North America's largest freshwater resource (the Great Lakes), contributing directly to Michigan Tech's Strategic Plan with a focus on "Natural Resources, Water, and Energy". She collaborates with experts in marine technology to implement new ways of understanding and managing the Great Lakes – work that also aligns with the College Research Focus on "Health and Quality of Life". Her DARPA-supported scholarship sits at the nexus between microbiology and technology development, providing cutting-edge experiences for the next generation of scientists and driving biotechnological advances. Dr. Vick-Majors is well-positioned to draw from diverse funding sources to continue to grow a portfolio of research that melds the data revolution with biological and environmental sciences to enhance innovation and scholarship into the future.

- *Service*

Dr. Vick-Majors contributes to service at department, university, and the national and international levels. Nationally and internationally, she serves as a member of the Science Advisory Board for the U.S. Ice Drilling Program and has served on the National Academy of Sciences (NAS) Committee on Planetary Protection and an NAS *ad hoc* committee under the Space Studies Board. She has served as a guest editor for Frontiers in Microbiology and regularly completes peer-reviews (30 journals reviewed for), *ad hoc* grant proposal reviews for U.S. and international funding agencies and serves on proposal review committees (e.g. NASA and DOE). Examples of her departmental service include the Department of Biological Sciences Chair Search Committee, Graduate Committee, and Charter Review Committee. At the College or University level, she participates in Leading Scholars Faculty Chats to support undergraduate recruitment and contributed to the Office of Sustainability's Climate Course Curriculum Group and the Great Lakes Research Center strategic planning initiative. Her work continues to generate invitations to serve, with recent service as a moderator for the NAS Workshop, "Exploring Key Research Topics for the Fifth International Polar Year", and as a speaker at the Bipartisan Commission on Biodefense meeting on Astrobiodefense. Dr. Vick-Majors' track record shows that she prioritizes impactful service ranging from the department to the national and international communities.

- *Recent and Significant Publications/Exhibitions/Performances/Etc.*

Dr. Vick-Majors has published 22 peer reviewed articles since starting at MTU in 2019 (avg. 4.4 per year) and 43 in her career. She currently has 4 manuscripts under review, including two led by graduate students. Her h-index of 25 and >2300 citations indicate recognition of the importance of her work by the scientific community. Her work includes publications in high impact journals including *Nature* (impact factor[IF]: 48.5; published 2014), *ISME Journal* (IF: 12.5; published 2014), *Proceedings of the National Academy of Sciences* (IF: 9.1; published 2022), *Limnology and Oceanography Letters* (IF: 8.5; published 2025; includes Ph.D. mentee), *AGU Advances* (IF: 8.1; published 2023), and Global Biogeochemical Cycles (IF 5.5; published 2020; press coverage from EOS, Scientific American, and Phys.org). These example publications span the course of her career to date, indicating her long-standing commitment to producing high quality, impactful work.

INFORMATION SHEET FOR BOARD OF TRUSTEES
JASON L. HARMAN
Michigan Technological University

Jason L. Harman, who is currently an associate professor of Psychology without tenure in the Department of Psychology and Human Factors in the College of Sciences and Arts, is being considered for promotion to associate professor of Psychology and Human Factors with tenure in the Department of Psychology and Human Factors in the College of Sciences and Arts.

Academic Degrees:

Ph.D.	2012	Ohio University, Athens, OH
M.S.	2007	Ohio University, Athens, OH
B.S.	2003	Bowling Green State University, Bowling Green, Ohio

Professional Record:

2023 – present	Associate Professor (without tenure), Department of Psychology and Human Factors, Michigan Technological University
2018 – 2023	Research Faculty, U.S. Naval Research Laboratory, Stennis, MS
2015 – 2023	Assistant Professor, Department of Psychology, Louisiana State University
2012 – 2015	Post-Doctoral Fellow, Carnegie Mellon University, Pittsburgh, PA
2004-2012	Graduate Teaching Assistant, Ohio University, Athens, OH

Summary of Accomplishments:

- *Teaching*

Dr. Harman extensive experience teaching at the undergraduate, graduate, and professional development levels. Prior to joining MTU, he designed and taught 6 graduate level classes 6 undergraduate level classes and 1 professional development class receiving consistently high ratings and winning teaching awards at both Ohio University and LSU. Since joining MTU, Dr. Hamran designed and taught graduate courses in research methods and applied cognitive science and undergraduate courses in cognitive psychology, Intro to psychology and I-O Psychology. He continues to enjoy and be engaged with teaching, taking advantage of the development resources provided by MTU to continually evolve and improve his teaching.

- *Research/Scholarly Activity*

To date, Dr. Harman's research has produced 36 journal publications and peer reviewed conference proceedings including notable publications in the leading outlets of both Psychology and Computer Science/AI and a recent publication received the 2024 Alan Berman Research Publication Award. According to Google Scholar, his publications have been cited 610 times with an h-index of 12 and an i10-index of 18 at time of writing. Dr. Harman has obtained external funding to support my research from federal, state, and foundation/center sources in excess of $8M. Since joining MTU, he has obtained a 5-year ($625k) cooperative agreement with the U.S. Naval Research Laboratory as the sole PI and a 5-year Multi-University Research Initiative with the Office of Naval Research (5yr/7.5M; 2.5M to MTU). Dr. Harman's research seeks to better understand how basic cognitive processes form decisions in a dynamic world and how we can use this level of analysis to help people make better decisions. his work is inherently interdisciplinary with notable collaborative projects and publications in psychology, computer science, engineering, and management.

Dr. Harman has graduated 2 PhD students and one MS student, and since joining MTU has begun advising

one PhD student and two MS students. His current PhD student has already presented research at two conferences, recently had his first peer reviewed conference proceeding accepted, and this summer won and completed a prestigious and competitive research internship with the Navy Research Lab in Stennis MS.

- *Service*

Nationally, Dr. Harman serves on the Society for Judgment and Decision Making student poster committee, and the Government Activities Committee (GAC) for the IEEE Computational Intelligence Society (CIS). At the University level He was recently added as a CSA representative for the Research Advisory Council (RAC). Much of his service has been focused at the department level, serving on the undergraduate and graduate program committee. This year he took over organizing our department colloquium series and became chair of the graduate program committee. Using his previous experience starting a new PhD program at LSU, he has helped our graduate program create new initiatives and systems to improve our systems of communication with students, student outcomes, and program efficiency.

- *Recent and Significant Publications/Exhibitions/Performances/Etc.*

†graduate student *undergraduate student

Harman, J. L. (2025). Gamified Personality Assessment Reduces Faking and Careless Responding. In *Proceedings of the Human Factors and Ergonomics Society Annual meeting (ASPIRE2025).*

Neiman†, E. & **Harman, J. L.** (2025). Gamified Personality Measure and Academic Performance. In *Proceedings of the Human Factors and Ergonomics Society Annual meeting (ASPIRE2025).*

Harman, J. L. & Scheuerman, J. (2025). Multi-Criteria Model Comparison for Large Language Models. In *Proceedings of the Human-Centered Evaluation and Auditing of Language Models (HEAL@CHI '25) at CHI 2025*.

Shapouri†, M., Fuller†, J. D., Wolshon, B., & **Harman, J. L.** (2025). Understanding and Modeling Drivers' Diversion Behavior during Congestion. *Journal of Transportation Engineering, Part A: Systems*. 151, 3.

Harman, J. L. & Scheuerman, J. (2023). Simple rules outperform Machine Learning for personnel selection: evidence from the 3rd annual SIOP ML competition. *Discover Artificial Intelligence.* 3.

Scheuerman, J., **Harman, J. L.,** Goldstein, R., Acklin, D., & Michael, C. J. (2023). Visual preferences for map labels. *Discover Psychology.* 3, 23

~Winner of 2024 Alan Berman Research Publication Award (U.S. Naval Research Laboratory)~

Scheuerman, J., **Harman, J. L.,** Goldstein, R., Acklin, D., & Michael, C. J. (2023). Label placement preferences for digital maps. *Discover Psychology.* 3, 23.

Harman, J. L., & Purl, J. (2022*)*. Advances in Gamified Personality Assessment. *Trends in Psychology.*

Harman, J. L., & Brown*, K. (2022*)*. Illustrating a narrative: A test of game elements in game-like personality assessment. *International Journal of Selection and Assessment.*

Kim†, S., **Harman, J. L**., & Beck, M. (2022). Prospect Theory in Selective Attention*. Journal of Vision. 22.*

Konstantinidis, E., **Harman, J. L.**, & Gonzalez, C. (2022). Memory patterns for choice adaptation in dynamic environments. *Memory & Cognition.*50, 864-881.

Scheuerman, J., **Harman, J. L.**, Mattei, N., & Venable, K. B. (2021). Modeling Voters in Multi-Winner Approval Voting. In *Proceedings of the Association for the Advancement of Artificial Intelligence* (AAAI 2021).

Harman, J. L., Yu, M., Konstantinidis, E., Gonzalez, C. (2021). How to Use a Multi-Criteria Comparison Procedure to Improve Modeling Competitions. *Psychological Review.* 128 (5), 995.

Harman, J. L, Weinhardt, J., Beck, J, & Mai†, I. (2021) Interpreting time-series COVID data: reasoning biases, risk perception, and support for public health measures. *Scientific Reports.* 11. p. 1-11.

C. Promotions

Andrew Storer, Provost and Senior Vice President for Academic Affairs

VIII-C. PROMOTIONS

The policy for granting promotion to tenured faculty members requires that the process begin with deliberations in the candidate's home unit and proceed through additional review at multiple levels. Recommendations are reviewed by the provost, and the provost makes a recommendation to the president of the University. The president has accepted the provost's recommendation regarding promotion for the candidates listed in this section.

RECOMMENDATION: It is recommended that the Board of Trustees approves the appointments involving promotion listed in this section.

00041

Michigan Tech

Office Memo

Office of the Provost and
Senior Vice President for Academic Affairs

Phone: (906) 487-2440
Fax: (906) 487-2935

TO: Richard Koubek, President

FROM: Andrew Storer, Provost & Senior Vice President for Academic Affairs

DATE: April 8, 2026

SUBJECT: Promotion Recommendations

In accordance with Board of Trustees Policy 6.4, Academic Tenure and Promotion, the following faculty members have been recommended for promotion. I have reviewed and support these recommendations and request that the Board of Trustees be asked to approve them at their April 24, 2026 meeting. If approved, the promotions will be effective August 17, 2026.

Promotion from Associate Professor with Tenure to Professor with Tenure

Keith Vertanen	Computer Science
Xinfeng Xie	College of Forest Resources & Env. Sci.
Marika Seigel	Humanities
Matthew Bartley Seigel	Humanities
Melissa Baird	Social Sciences

APPROVED:

Richard Koubek, President

4/9/26

Date

INFORMATION SHEET FOR BOARD OF TRUSTEES
KEITH VERTANEN
Michigan Technological University

Keith Vertanen, who is currently an associate professor with tenure in the Department of Computer Science in the College of Computing, is being considered for promotion to full professor in the Department of Computer Science in the College of Computing.

Academic Degrees:

Ph.D.	2009	University of Cambridge, Cambridge, UK
M.Phil.	2004	University of Cambridge, Cambridge, UK
M.S.	1999	Oregon State University, Corvallis, OR
B.A.	1997	University of Minnesota: Morris, Morris, MN

Professional Record:

2022 – present	Dave House Associate Professor in Computing (with tenure), Department of Computer Science, Michigan Technological University
2019 – 2022	Associate Professor (with tenure), Department of Computer Science, Michigan Technological University
2015 – 2019	Assistant Professor (without tenure), Department of Computer Science, Michigan Technological University
2014 – 2015	Associate Professor (without tenure), Montana Technological University
2011 – 2014	Assistant Professor (without tenure), Montana Technological University
2010 – 2011	Lecturer, Princeton University
2009 – 2010	Postdoctoral Research Associate, University of Cambridge

Summary of Accomplishments:

- *Teaching*

Dr. Vertanen has 15 years of teaching experience. At MTU, his primary responsibility has been CS1142: Programming at the Hardware/Software Interface. Dr. Vertanen developed extensive materials including short topic videos, quizzes, in-browser coding activities, and automated program testing. These efforts have enhanced student learning, improved staff efficiency, and allowed online summer delivery for this large course (avg. of 116 students). He introduced Discord and dedicated peer tutors to support struggling students. He received **exceptional instructor awards four times** and **19 excellent remote instruction ratings** during COVID. Students (N=933) rate the course highly, **average of 7 dimensions: 4.4/5**.

Dr. Vertanen also created a new graduate course in Advanced Natural Language Processing (NLP). Given this field's extreme pace, the course was designed with an agile curriculum featuring a flipped classroom in which students discuss and analyze recent videos and papers. Students also conduct a research project and present results via a poster. Students (N=16) rate the course highly, **average of 7 dimensions: 4.7/5**.

- *Research/Scholarly Activity*

Dr. Vertanen has an active research program. He has **76 publications, 25 of which have been cited 25 or more times**. His research spans human-computer interaction (HCI), NLP and large language models (LLMs), virtual and augmented reality (VR/AR), and accessibility. He collaborates with colleagues at MTU and other top institutions including **MIT, University of Cambridge, Northeastern University, and Cornell University**. He received a **CHI best paper award (1% of submissions)**, the top conference in HCI. At other

venues, he has won **best student paper, best paper honorable mention, journal honorable mention, and best demo runner-up**. At MTU, he has advised **6 PhD, 2 MS, and 23 undergraduate researchers**.

Dr. Vertanen has been the PI responsible for **$2.0M in external grant revenue** while at MTU. This includes an NSF CAREER award and three other NSF awards including a **recent $1.2M award.** His research on next-generation interactive systems has attracted industry interest including **multiple gifts from both Google and Meta**. He translated his research on dwell-free eye-typing into a product for Tobii-Dynavox.

Dr. Vertanen's work aligns with MTU's mission to advance knowledge, foster innovation, and improve quality of life through responsible, human-centered technologies. His future plans emphasize funding growth, interdisciplinary collaboration, involving undergraduate researchers, and ethical innovation.

- *Service*

Dr. Vertanen has served his department, college, and university in numerous ways. This includes: two searches that each hired three tenure-track faculty, participating in the TechForward initiative, chairing the College of Computing TPR committee (2 years), early career mentoring (3 years), university senator (4 years), and CS grad committee (4 years). His current positions are: director of human centered computing at the ICC, CS grad committee, ECM committee, Applied Computing TPR, and TechForward 2.0 convener.

Dr. Vertanen is an internationally recognized expert in CS. He has held leadership positions on the program committee (PC) of top conferences including CHI (6 times), IUI (1 time), and MobileHCI (1 time). He has served on NSF review panels (8 times), been a journal associate editor (6 years), served on the PC for various conferences and workshops (14 times), and reviewed numerous individual papers. He has organized international workshops, taught at ACM SIGCHI summer schools, and given invited talks.

- *Recent and Significant Publications/Exhibitions/Performances/Etc.*

1. Gaines, D., Vertanen, K. Adapting Large Language Models for Character-based Augmentative and Alternative Communication. In *Proceedings of EMNP 2025 Findings (to appear).*
2. Frisch, B., Vertanen, K. Designing AAC for Use in Social and Community Contexts: A Scoping Review. *Augmentative and Alternative Communication (to appear)*.
3. Richardson, M., Botros, F., Shi, Y., Guo, P., Snow, B. J., Zhang, L., Dong, J., Vertanen, K., Ma, S., Wang, R. StegoType: Surface Typing from Egocentric Cameras. In *Proceedings of UIST 2024.*
4. Bonaker, N., Nel, E.-M., Vertanen, K., Broderick, T. A Usability Study of Nomon: A Flexible Interface for Single-Switch Users. In *Proceedings of ASSETS 2023.*
5. Gaines, D., Baker, M., Vertanen, K. FlexType: Flexible Text Input with a Small Set of Input Gestures. In *Proceedings of IUI 2023*.
6. Kristensson, P.O., Mjelde, M., Vertanen, K. Understanding Adoption Barriers to Dwell-Free Eye-Typing: Design Implications from a Qualitative Deployment Study and Computational Simulations. In *Proceedings of IUI 2023.*
7. Bonaker, N., Nel, E.-M., Vertanen, K., Broderick, T. A Performance Evaluation of Nomon: A Flexible Interface for Noisy Single-Switch Users. In *Proceedings of CHI 2022*.
8. Adhikary, J., Vertanen, K. Accelerating Text Communication via Abbreviated Sentence Input. In *Proceedings of ACL 2021.*
9. Gaines, D., Kristensson, P.O., Vertanen, K. Enhancing the Composition Task in Text Entry Studies: Eliciting Difficult Text and Improving Error Rate Calculation. In *Proceedings of CHI 2021*.
10. Adhikary, J., Vertanen, K. Text Entry in Virtual Environments using Speech and a Midair Keyboard. *IEEE Transactions on Visualization and Computer Graphics (2021)*. **TVCG Best Journal Nominee.**

INFORMATION SHEET FOR BOARD OF TRUSTEES
XINFENG XIE
Michigan Technological University

Xinfeng Xie, who is currently an associate professor of forest biomaterials with tenure in the College of Forest Resources and Environmental Science, is being considered for promotion to full professor of forest biomaterials in the College of Forest Resources and Environmental Science.

Academic Degrees:

Ph.D.	2008	The University of Maine, Orono, ME
M.S.	2001	The Central-South Forestry University, Zhuzhou, China
B.S.	1998	The Central-South Forestry University, Zhuzhou, China

Professional Record:

2021 - present	Associate Professor (with tenure), College of Forest Resources and Environmental Science, Michigan Technological University
2016 – 2021	Assistant Professor (without tenure), College of Forest Resources and Environmental Science, Michigan Technological University
2013 – 2016	Post-Doctoral Fellow, School of Natural Resources, West Virginia University, Morgantown, WV
2012 – 2013	Director for Quality Assurance and Research, Maine Wood Treaters Inc., Mechanic Falls, ME
2011 – 2012	Assistant Research Professor, School of Forest Resources, University of Maine, Orono, ME
2008 – 2010	Post-Doctoral Research Associate, School of Forest Resources, University of Maine, Orono, ME
2003 – 2008	Graduate Research Assistant, School of Forest Resources, University of Maine, Orono, ME

Summary of Accomplishments:

- *Teaching*

Since receiving tenure in 2021, Dr. Xie has consistently contributed to the core curriculum for the BS in Sustainable Bioproducts and Forestry. He teaches FW1035 Wood Anatomy and Properties (3 credits) each spring with 48 students, and FW 3090 Mechanics of Wood Materials (3 credits), FW4050 Preservation of Wood Materials (3 credits), and co-teach FW3097 Forest Biomaterials (3 credits, 16% teaching load) each fall. He consistently updates course materials to reflect current knowledge and practices to enhance students' learning experience. He has achieved an average 4.04/5.0 teaching evaluation score from the students for the past 4 years. Dr. Xie has supervised 1 postdoctoral researcher and chaired 3 PhD committees (2 graduated). He also mentored 21 undergraduate students as research technicians in his lab and 2 teaching assistants for FW1035.

- *Research/Scholarly Activity*

Dr. Xie's research advances the sustainable use of forest-based renewable materials, directly supporting the University's mission to develop solutions for societal challenges and promote responsible use of resources. Since receiving tenure in 2021, his work has focused on enabling the hardwood industry's entry into the structural lumber market and developing technologies to upcycle wood waste and industrial

This Information Sheet Should Not Exceed Two Pages in Length

byproducts. During this period, Dr. Xie has received $3.1 million in external research funding and maintained strong collaborations both on campus and with national and international institutions. His efforts have produced 28 peer-reviewed journal articles since 2021, including publications in top-tier journals. His research contributed directly to the U.S. Army's adoption of sustainable domestic hardwoods as an alternative to endangered tropical hardwoods for military trailer decking systems.

- *Service*

Since 2021, Dr. Xie has continued to serve as Director of the Wood Protection Group (WPG), an ISO 17025 testing laboratory. He has secured $1.9 million industrial contracts to support WPG's operations, including 5 full-time staff, 2 campus laboratories, and 7 field test sites (5 in the U.S. and 2 in South America). His service spans international, national, and university levels. He facilitated MTU faculty visits to Suriname, strengthening global research partnerships. He is a voting member of the ANSI/APA PRG 320 Committee, advocating for the inclusion and use of hardwoods in the national Cross-Laminated Timber (CLT) standard, and actively contributes to six technical committees of the American Wood Protection Association (AWPA). He was the lead technical contact for the U.S. military's hardwood trailer decking specification (CID A-A-60057, issued November 27, 2023). At Michigan Tech, Dr. Xie has served on the Research Advisory Council since Spring 2024, contributed to the Tech Forward 2.0 strategic planning initiative, and participated in the CFRES curriculum and TPR committees.

- *Recent and Significant Publications/Exhibitions/Performances/Etc.*

*Musah, M, *Ma, Y (Co-first Author), Xiping Wang, Robert Ross, Reza Hossinpourpia, Xiaolei Jiang and **Xinfeng Xie**. 2024. " Face Bonding Strength of Cross Laminated Northern Hardwoods and Softwoods Lumber." ***Construction and Building Materials***. 421, 135405. (JIF 8.0)

This paper, led by Dr. Xie's PhD advisee and postdoctoral researcher, is the outcome of a multi-year collaboration of Dr. Xie, the USDA Forest Service, and Linnaeus University (Sweden), focused on evaluating northern hardwood lumber for use in cross laminated timber production.

*Quan, P., Kiziltas, A., Ong, R. G., DeVallance, D., Xu, J., **Xie, X.** 2023. Lignin with tunable and predictable yield and molecular properties. ***ACS Sustainable Chemistry & Engineering***. 11(7), 2861-2870. (JIF 7.3)

Led by Dr. Xie's PhD advisee, this paper presents the outcome of the collaborative effort between Dr. Xie and Ford Motor Company to upcycle lignin, a byproduct of pulp and paper industry, for use in automotive materials.

Yuxin Z, Ting S, Hongyu C, Ying Z, Zhi G, Suiyi Z, **Xinfeng X**, Hong Z, Yidi G, Yang H. 2023 Stepwise recycling of Fe, Cu, Zn and Ni from real electroplating sludge via coupled acidic leaching and hydrothermal and extraction routes. ***Environmental Research***.;216:114462. (JIF 7.7)

This paper presents findings from a long-term international collaboration focused on upcycling metals from industrial waste streams.

*Graduate student author

INFORMATION SHEET FOR BOARD OF TRUSTEES
MARIKA SEIGEL
Michigan Technological University

Marika Seigel, who is currently an associate professor of rhetoric and technical communication with tenure in the Department of Humanities in the College of Sciences and Arts, is being considered for promotion to full professor of rhetoric and technical communication with tenure in the Department of Humanities in the College of Sciences and Arts.

Academic Degrees:

Ph.D.	2006	The Pennsylvania State University, State College, PA
M.A.	2002	The Pennsylvania State University, State College, PA
B.A.	1997	The University of Michigan, Ann Arbor, MI

Professional Record:

2023 – present	Associate Provost of Undergraduate Education and Dean, Pavlis Honors College, Michigan Technological University
2012 – present	Associate Professor of Rhetoric and Technical Communication, Department of Humanities, Michigan Technological University
2015 – 2019, 2022-2023	Director, Composition Program, Michigan Technological University
2014 – 2015	Visiting Associate Professor, University of Tartu, Tartu, Estonia
2005 – 2012	Assistant Professor of Rhetoric and Technical Communication, Department of Humanities, Michigan Technological University
2000 – 2005	Graduate Teaching Assistant, Department of English, The Pennsylvania State University, State College, PA

Summary of Accomplishments:

Teaching

Throughout her career at Michigan Tech, Dr. Seigel has pursued innovation and excellence in teaching as an instructor, scholar, and administrator. Her contributions extend from classroom practice to institution-wide curricular design as Associate Provost for Undergraduate Education and Dean of the Pavlis Honors College, most notably in launching Essential Education. As Composition Program Director, she redesigned training for new graduate instructors, creating *MonsterComp*, a collaborative co-teaching model published in *College Composition and Communication*. She has chaired numerous graduate committees, mentoring emerging teachers and scholars. In her courses she emphasizes experiential, student-centered learning that gives students real-world stakes for their writing: projects for local and international clients, two study-abroad programs to Estonia (with another in development for Suriname), cross-course collaborations, and an inter-institutional usability project with the University of Minnesota. These practices reflect a consistent aim: helping students engage meaningfully with complex systems beyond the classroom. Dr. Seigel is an Academy of Teaching Excellence inductee.

Research/Scholarly Activity

In a similar vein, Dr. Seigel's scholarship centers on how people, from patients to students to academic leaders, navigate and ultimately change complex systems. Her 2014 book, *The Rhetoric of Pregnancy* (University of Chicago Press), established her as a foundational voice in the rhetoric of health and

medicine; subsequent work on pregnancy and birth under Soviet occupation in Estonia further reveals how medical practice and patient experience are shaped by cultural and political contexts, offering insight into the challenges patients face in making sense of and working within medical systems. In parallel, her leadership roles at Michigan Tech have inspired a second strand of scholarship on higher education reform, focused on how faculty and administrators can build effective educational systems while sustainably managing change. This research includes work on collaborative teaching models, a forthcoming article on Michigan Tech's distinctive approach to general education reform, numerous conference presentations, and more than $1.8 million in external funding in the past year alone. Looking forward, Dr. Seigel will expand her comparative work in the rhetoric of health and medicine and ecological rhetoric while deepening applied research on student-centered curricula and sustainable institutional change. Together, these projects provide both theoretical insight and practical strategies for supporting people who must work within complex structures, while helping leaders design those structures to adapt to future needs.

Service

Dr. Seigel's career demonstrates sustained and effective service at every level. She began with department-level roles on search committees, program committees, and the Tenure, Promotion, and Review committee, and advanced to university-wide service on the Senate and General Education Council. These positions prepared her to lead initiatives such as the Composition Program and general education reform under the Education for the 21st Century Tech Forward initiative. As Dean of the Pavlis Honors College and Associate Provost, she has led the development of Essential Education, the undergraduate Curriculum Roadmap, a major revision of the Honors curriculum emphasizing service learning and leadership, and efforts to improve undergraduate advising. She is also co-leading Michigan Tech's 4-year Assurance Argument for continued Higher Learning Commission accreditation. Nationally, Dr. Seigel has served as a reviewer for NEH grants, for leading journals and publishers, and as a member of the National Collegiate Honors Council's Assessment and Evaluation Committee. Across these roles, her service and leadership highlights practical, sustainable approaches to program design and change management, advancing Michigan Tech's strategic goal of delivering a distinctive, rigorous, action-based education grounded in technical expertise and responsive to social and cultural contexts.

Recent and Significant Publications/Exhibitions/Performances/Etc.

"A Consultative Framework for General Education Reform: Change Management and the Power of Storytelling." Maria Bergstrom, Shereen Ilahi, Niti Pandey, Mary Raber, **Marika Seigel**, Kelly Steelman, and Patricia Szczy. Forthcoming in the *Journal of General Education*, 2026.

"Land-People Rhetorical Ecologies." Kristin Arola, **Marika Seigel**, Jason Collins. *Rhetorical Ecologies: Fundamentals of a Threshold Concept.* Ed. Sid Dobrin and Madison Jones. NCTE/CCC Studies in Writing and Rhetoric, 2024. 181 – 201.

"Pregnancy, motherhood, and/as/or dissent: The Soviet Micro-Rhetorics of Gender." Eve Annuk and **Marika Seigel**. *Rhetoric Review* 39.4 (December 2020): 502 – 521.

"Monstrous Composition: Reanimating the Lecture in First-Year Writing Instruction." **Marika Seigel**, Joshua Chase, Silke Feltz, William DeHerder, Karla Kitalong, Abraham Romney, and Kimberly Tweedale. *College Composition and Communication* 71.4 (June 2020): 643 – 671.

The Rhetoric of Pregnancy. Chicago, IL: University of Chicago Press, 2014.

INFORMATION SHEET FOR BOARD OF TRUSTEES
M. Bartley Seigel
Michigan Technological University

M. Bartley Seigel is currently an associate professor with tenure in the Department of Humanities in the College of Sciences and Arts. He is being considered for promotion to full professor in the same units.

Academic Degrees

MFA*	2004	The Pennsylvania State University, State College, PA
B.S.	1998	Eastern Michigan University, Ypsilanti, MI

*****The Association of Writers and Writing Programs (AWP) officially states that the Master of Fine Arts (MFA) is the appropriate terminal degree for creative writers in higher education.

Professional Record

2013 – present	Associate Professor (with tenure), Department of Humanities in the College of Sciences and Arts, Michigan Technological University
2007 – 2013	Assistant Professor (without tenure), Department of Humanities in the College of Sciences and Arts, Michigan Technological University
2005 – 2007	Adjunct Professor (without tenure), Department of Humanities in the College of Sciences and Arts, Michigan Technological University

Summary of Accomplishments

- *Teaching & Advising*

Seigel currently chairs one master's advisory committee, has served on multiple graduate committees, and has advised several undergraduate theses. His teaching is consistently strong, with a three-year aggregated mean of 4.38/5.00, and peer reviews that highlight classrooms that are inclusive, dynamic, and designed to encourage creativity and risk-taking. As Dr. Holly Hassel recently noted, *"I saw a class being led by a creative expert… who has carefully designed a course that allows students to take risks with their work."* Beyond his formal teaching and advising load, Seigel has consistently sought out additional avenues to mentor and support student scholarship and creativity. He co-advises the new Ink+Ore Publishing Enterprise and serves as faculty advisor to the *Michigan Tech Lode*, the university's oldest student organization. Kellie Raffaelli, Associate Vice President of Student Affairs and Dean of Students, affirms: *"Seigel's involvement was crucial in preventing the demise of the Lode… his advisory role has also had a profound and positive impact on the entire Michigan Tech community."* Since 2020, Seigel has also directed the Writing Center, a cornerstone of Michigan Tech's learning center network, which welcomes approximately 6,000 visitors annually for a wide range of writing support services. In the past three years alone, the Writing Center has logged more than 1,000 peer-to-peer coaching appointments annually, representing over 500 hours of supplemental writing instruction across disciplines. Under his leadership, the Center reinstated graduate-level services, expanded its mission to support writing-intensive student organizations, and renovated its physical space to better serve the university community.

Research/Scholarly/Creative Activity

Seigel's creative work is nationally recognized for its engagement with place, community, and voice, particularly in relation to the cultural and environmental complexities of Michigan's Upper Peninsula. His debut collection, *This Is What They Say* (Typecast Publishing), was praised for its vivid imagery and unflinching insight into working-class lives navigating social and environmental change, while his most

recent book, *In the Bone-Cracking Cold* (Wayne State University Press), extends this commitment in a year-long meditation on ecology, colonial legacies, resilience, and love in the U.P.'s rugged landscapes. Acclaimed by Roxane Gay, Kimberly Blaeser, Margaret Noodin, and Mark Wunderlich, among others, the collection affirms his place as both a regional and national voice in contemporary poetry. Beyond his own writing, Seigel has been an influential editor and literary steward: he co-founded *PANK Magazine*, described by *The New York Times Magazine* as *"a raft of experimental fiction and poetry,"* which helped launch writers such as Ocean Vuong and Franny Choi. His later editorial contributions to award-winning *Words Without Borders*, and his small-run letterpress journal *Simple Machines*, further reflect his dedication to fostering inclusivity and global literary dialogue. His artistic development has also been shaped by residencies at TYPA in Estonia and Isle Royale National Park, which broadened his reach and led to collaborations such as Libby Meyer's symphony *The Land That Speaks When We've Ears to Listen*. As Upper Peninsula Poet Laureate and an Academy of American Poets Laureate Fellow, he founded the Young Poets Program, bringing free workshops to rural and tribal schools across the U.P., while his national recognition includes selection for the Academy's *Dear Poet Project* and the Library of Michigan's *Michigan Words* campaign—initiatives underscoring his belief in poetry as a vital public art form.

- *Administration & Service*

Throughout his career, Seigel has provided steady and varied leadership across department, college, and university initiatives. Within Humanities, he serves on the Steering Committee, the English Curriculum Committee, and he co-chairs the Applied Humanities Ideation Team which is working to develop a new humanities production focused program inline with university vision and mission. In addition to having directed the Writing Center for the past six years, his university-wide service includes roles on the Learning Centers Steering Committee, an Essential Education Course List Team, and he also mentors faculty through the Essential Education E3 Fellows program. As faculty advisor to the Michigan Tech Lode and co-advisor to the Ink+Ore Publishing Enterprise, Seigel mentors students in writing, project management, and leadership to build professional competencies that extend well beyond the classroom. His role as a peer reviewer for Wayne State University Press further demonstrates his national service to the field. Taken together, these efforts advance Michigan Tech's strategic mission and vision by fostering student success, creativity, and communication across disciplines while elevating the university's reputation through nationally recognized creative work, innovative teaching, and community-centered service.

- *Recent and Significant Publications/Exhibitions/Performances/Etc.*

Publications

- (March 2025). Seigel, M. B. *In the Bone-Cracking Cold: Poems*. Detroit, Michigan: Wayne State University Press. (Book)
- (April 2025). Seigel, M. B. "Eclogue." Split Rock Review. Split Rock Review. (Poem)

Invited Performances & Presentations

- (September 2025). Seigel, M. B., Myles, E., "Poetry Readings by M. Bartley Seigel & Eileen Myles," Harbor Springs Festival of the Book, Harbor Springs, Michigan.
- (September 2025). Seigel, M. B., Goodman, A., Ivey, E., "Wilderness & Transformation with Allegra Goodman, Eowyn Ivey, & M. Bartley Seigel," Harbor Springs Festival of the Book, Harbor Springs, Michigan.

Honors and Awards

- (June 2021). Academy of American Poets Laureate Fellowship, Academy of American Poets.
- (February 2021). Poet Laureate of Michigan's Upper Peninsula, U.P. Poet Laureate Foundation.

INFORMATION SHEET FOR BOARD OF TRUSTEES
MELISSA F. BAIRD
Michigan Technological University

Melissa F. Baird, who is currently an Associate Professor of Anthropology with tenure in the Department of Social Sciences in the College of Sciences and Arts, is being considered for promotion to full professor in the Department of Social Sciences in the College of Sciences and Arts.

Academic Degrees:

Ph.D.	2009	Anthropology, University of Oregon, Eugene, OR
M.S.	2006	Anthropology, University of Oregon, Eugene, OR
B.A.	1998	Anthropology, University of California Berkeley, Berkeley, CA

Professional Record:

2019 - present	Associate Professor, Anthropology, Department of Social Sciences, Michigan Technological University
2024 - present	Program Officer, Directorate for STEM Education (EDU), Division of Graduate Education (DGE), National Science Foundation
2013 - 2019	Assistant Professor (without tenure), Department of Social Sciences, Michigan Technological University
2023 - 2024	Associate Dean, Graduate School
2021 - 2023	Faculty Fellow, Graduate School
2020 - 2024	President, Association of Critical Heritage Studies
2021 - 2023	Director of Graduate Studies, Department of Social Sciences, Michigan Technological University
2018 - 2020	Director of Undergraduate Studies, Department of Social Sciences, Michigan Technological University
2011 - 2013	Postdoctoral Researcher, Woods Institute for the Environment, Archaeology Center, and the Department of Anthropology, Stanford University

Summary of Accomplishments:

- *Teaching*

Professor Baird has chaired multiple PhD and MS committees and regularly advises undergraduate research, including first-generation students. She has received the *MTU Distinguished Teaching Award* and the *Exceptional Graduate Student Mentor Award*. Her courses use case-based, cross-disciplinary learning to translate social science methods to an engineering-oriented technological university, and she created two student research programs, UPPERS and MEG. As Undergraduate Director and Graduate Director, she strengthened student progress and retention, workforce preparation, and now advances these priorities nationally as an NSF Program Director in the Directorate for STEM Education.

- *Research/Scholarly Activity*

Dr. Baird's global, multi-sited research investigates communities shaped by resource extraction, and how heritage is mobilized in struggles over rights. Her work culminated in the book, *Critical Theory and the Anthropology of Heritage Landscapes* (U. Press of Florida, 2017), which was widely adopted in university courses. Since receiving tenure in 2019, she has expanded her research portfolio and secured over $1.4 million in competitive funding from the National Science Foundation and the Alfred P. Sloan Foundation,

including a major NSF convergence project with the Keweenaw Bay Indian Community and a Sloan grant with San José State University. Her recent scholarship extends to institutes of higher education and STEM graduate ecosystems, where she leads research that informs policy debates on STEM graduate education and workforce development.

Service

Dr. Baird has held progressive leadership roles of growing responsibility at MTU and beyond. At MTU, she served as Faculty Fellow and Associate Dean in the Graduate School and as the Director of Undergraduate and Graduate Studies (SS). She is currently on detail as a Program Officer at the NSF, where she leads and co-manages multiple cross-directorate national programs in higher education. Internationally, she served two terms as President of the *Association of Critical Heritage Studies* (2020–2024), an organization with nearly 2,500 members and 20 global chapters. She serves on the editorial board of the *International Journal of Heritage Studies*.

- *Recent and Significant Publications*

Books

2017 **Baird, MF** *Critical Theory and the Anthropology of Heritage Landscapes*. Cultural Heritage Series. Gainesville: University Press of Florida.

Refereed Publications

Baird MF, Semerjian T, Hannum K, Cantrell W, Gersie W "Assessing Institutional Ecosystems for STEM Graduate Education in Institutes of Higher Education: The Institutional Capacity Index." *Frontiers in Education (*accepted).

2026 **Baird MF**, Gagnon V, Perlinger J, Urban N, Juip L, Kamm K, and Ravindran E "Expanding the Convergence Canon: Indigenous Knowledge Systems and Place-Based Convergence Research in Lake Superior's Keweenaw Bay, USA." *Socio-Ecological Practice Research*. 8(1).

2024 **Baird MF** "Heritage Work in Extractive Zones." *Journal of Social Archaeology* 24(3): 284–301. https://doi.org/10.1177/14696053241259388

2024 **Baird MF** "Landscapes & Environment." In *Methods and Methodologies in Heritage Studies*, edited by R. King and T. Rico, 97–114. London: UCL Press. https://doi.org/10.2307/jj.11316378.14

2024 Rico T, **Baird MF** "A Critical Cartography: Mapping Chapters, Networks, and Relationships through Regional Organization." *International Journal of Heritage Studies* 30(12): 1447–1453. https://doi.org/10.1080/13527258.2024.2334223

2022 **Baird MF** "Waste Sits in Places: Post-Industrial Landscapes as Heritage." In *Landscapes as Heritage: Critical Perspectives*, edited by G. Pettenati, 204–214. Routledge. https://doi.org/10.4324/9781003195238-18

2022 **Baird MF**, Moss M, Perrot-Minnot S, Rogers JS "The Archaeology of Clam Cove (49-SEL-006), Lake Clark National Park and Preserve, Southcentral, Alaska." *Alaska Journal of Anthropology* 20(1-2): 85–102.

D. Appointment with Tenure

Andrew Storer, Provost and Senior Vice President for Academic Affairs

VIII-D. APPOINTMENT WITH TENURE

Dr. Sri Beldona is being recommended for appointment as professor with tenure in the College of Business effective July 1, 2026. The college of business's promotion and tenure committee, the inter-school promotion and tenure committee, the dean of the College of Computing, the provost, and the president have endorsed the recommendation for this appointment and tenure. Dr. Beldona spent over 20 years at the University of Dallas as a faculty member and in administrative roles. Most recently he served as the chief academic officer and special assistant to the president at East Texas A&M University's Dallas location. He will assume the duties of Dean of the College of Business at Michigan Technological University July 1, 2026. Dr. Beldona earned his PhD in Business Administration and a Master of Science in International Business from Temple University in Philadelphia, Pennsylvania; a Master of Business Administration in Marketing from Pune University of India; and a Bachelor of Science in Mechanical Engineering from Gulbarga University of India.

RECOMMENDATION: It is recommended that the Board of Trustees approve the appointment of Dr. Sri Beldona as professor with tenure in the College of Business effective July 1, 2026.

INFORMATION SHEET FOR BOARD OF TRUSTEES
Sri Beldona
Michigan Technological University

Sri Beldona is the incoming dean of the College of Business and a professor of management (starting July 1st, 2026), without tenure. He is being considered for tenure as Professor of Management in the College of Business.

Academic Degrees:

Ph.D.	1997	International Business Administration, Temple University, Philadelphia, PA
M.S.	1993	International Business Administration, Temple University, Philadelphia, PA
M.B.A	1990	Marketing, Pune University, India
B.S.	1987	Mechanical Engineering, Gulbarga University, India

Professional Record:

East Texas A&M University	
3/25-Present	Chief Academic Officer & Special Assistant to the President (with tenure)
Oklahoma City University	
7/21–3/25	Dean and Professor of Management, Meinders School of Business (with tenure)
University of Dallas	
1/22– 6/22	Professor of Management
2/18-12/22	Associate Dean, Academic Affair
8/13-2/18	Professor of Management (tenured)
2/11-7/13	Associate Dean, International Initiatives & Enrollments (promoted to full professor May 2013)
8/07-1/11	Associate Professor of Management (awarded tenure in May 2007)
1/01-7/07	Assistant Professor of Management (without tenure)
Marketing Management Inc.	
6/96-1/01	Vice President – Strategic Planning

Summary of Accomplishments:

Teaching: Dr. Sri Beldona is an award-winning educator, twice recognized with the Haggar Teaching Excellence Award, reflecting sustained excellence across undergraduate, graduate, and doctoral instruction. He teaches Marketing Research, Capstone Strategy, International Business, Data Analytics, and Business Statistics with a strong emphasis on analytical rigor and real-world application. His international teaching across China, India, Fiji, and Finland enriches his global perspective.

Beldona is known for translating complex theory into practical decision-making frameworks, designing courses that mirror real-world environments, and equipping students to navigate ambiguity. This approach has consistently earned outstanding evaluations and lasting impact, with many former students maintaining long-term mentorship relationships.

Dr. Beldona has also led curriculum innovation, developing programs aligned with emerging industry needs, particularly in data analytics and global business, ensuring continued relevance and meaningful contributions to student success.

This Information Sheet Should Not Exceed Two Pages in Length

Research: Dr. Beldona's scholarship reflects sustained contributions to international business, marketing strategy, and consumer behavior, with a focus on how firms create value in complex, globalized environments. His research bridges theory and practice, drawing on industry insights to address questions of importance to both academics and decision-makers. Across his work, he has developed a coherent research identity centered on how firms interpret market signals, shape customer perceptions, and make strategic decisions under uncertainty.

A distinguishing feature of Dr. Beldona's scholarship is its grounding in real-world contexts, often informed by close engagement with industry. This practical orientation enhances both the credibility and applicability of his work, enabling him to translate complex theoretical constructs into insights practitioners can use. In recognition of his research agenda, he has received the prestigious Haggar Research Grant from the University of Dallas twice. Below is a summary of publication counts.

- 6 top-tier A*/A publications (ABDC journal listing as used by R1 Business Schools)
- 30 peer-reviewed journal publications
- 10 peer-reviewed proceedings
- 40 conference presentations

Service: Dr. Beldona's service is comprehensive, leadership-oriented, and institution-building, spanning curriculum design, assurance of learning, accreditation, faculty evaluation, and strategic planning. His work reflects a deep commitment to the academic mission while advancing innovation through technology initiatives, program development, and global engagement. Extending beyond traditional committee roles, he leads institution-wide initiatives and leadership development efforts, demonstrating a forward-looking approach that aligns institutional practices with emerging trends in higher education. A brief summary of his service is provided below:

- Provides strategic leadership for university-wide microcredentialing initiatives at East Texas A&M University, including partnerships with Coursera, Grow with Google, and Grammarly, advancing workforce-aligned, industry-recognized credential pathways.
- Served as a mentor to the Dean of the School of Law at Oklahoma City University (2023–2025), contributing to leadership development at the senior administrative level.
- Played an active role on dean search committees for the College of Nursing (2022) and the College of Dance (2023) at Oklahoma City University, reflecting institutional trust in his judgment on high-impact leadership appointments.
- Served as a peer review team member for AACSB accreditation visits (2024 – Michigan; 2025 – South Carolina), contributing to the evaluation and continuous improvement of peer institutions.
- Elected and served as a Faculty Senate member at the University of Dallas, representing faculty interests and participating in shared governance at the institutional level.
- Served on the College of Business Rank and Tenure Committee at the University of Dallas, contributing to faculty evaluation and the maintenance of academic standards.
- Provided sustained leadership on the Curriculum Committee at the University of Dallas, including service as chair, ensuring curricular relevance, rigor, and alignment with evolving industry and disciplinary expectations.

E. Emeritus Rank

Andrew Storer, Provost and Senior Vice President for Academic Affairs

VIII-E. EMERITUS RANK

Recommendation for the granting of faculty emerita/emeritus status originates within the retiree's academic department and proceeds through the respective college. Once approved, the recommendation is presented to the provost, and if successful, to the president of the University for presentation to the Board of Trustees.

RECOMMENDATION: It is recommended that the Board of Trustees approves the request to name Dr. Jaroslaw W. Drelich Professor Emeritus in the Department of Materials Science & Engineering.

00056

Michigan Tech

OFFICE MEMO

TO: Michigan Technological University Board of Trustees

FROM: Walter Milligan, Chair, Materials Science and Engineering

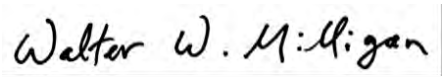
DATE: February 6, 2026

SUBJECT: Recommendation for Emeritus Status

The faculty of the Department of Materials Science and Engineering voted on February 6, 2026 to request that the Michigan Technological University Board of Trustees name Jaroslaw W. Drelich as Professor Emeritus upon his retirement on June 30, 2026.

Jarek has been on the faculty since 1997 and was named a Distinguished Professor and the Witte Family Endowed Professor. He is among the most distinguished researchers ever to work at Michigan Tech, with over 190 refereed journal publications, 10 patents, over 19,000 citations and an h-Index of 72. He has been a valued colleague and teacher.

Approved



2/6/2026

Department Chair — Date

Michelle Scherer
Digitally signed by Michelle Scherer
Date: 2026.02.11 06:43:25 -05'00'

College Dean — Date

Andrew J. Storer
Digitally signed by Andrew J. Storer
Date: 2026.02.19 10:10:27 -05'00'

Provost and Senior Vice President for Academic Affairs — Date

Richard J. Koubek
Digitally signed by Richard J. Koubek
Date: 2026.02.19 13:23:33 -05'00'

President — Date

Revised 9/25/23

F. New Degree Programs

Andrw Storer, Provost and Senior Vice President for Academic Affairs

1. Associate of Science in General Studies

VIII-F.1. NEW DEGREE PROGRAM
PROPOSAL FOR AN ASSOCIATE OF SCIENCE (AS) IN GENERAL STUDIES

The proposed Associate of Science (AS) in General Studies allows students who qualify for Michigan's Tuition Incentive Program (TIP) to use this financial aid which is earmarked specifically for obtaining an associate's degree. Continued financial aid through the TIP program is also available for students who complete an associate's degree and go on for a bachelor's degree, as long as the credits taken during their associate's degree count toward their bachelor's degree.

This associate's degree is available to students who are interested in exploring any of the bachelor's degree programs at Michigan Tech.

The proposal has been approved by the University Senate and University administration. The University is seeking Board of Trustees approval.

RECOMMENDATION: It is recommended that the Board of Trustees approves the Associate of Science (AS) degree in General Studies.

2. Bachelor of Science in Artificial Intelligence

VIII-F.2. NEW DEGREE PROGRAM
PROPOSAL TO ESTABLISH A BACHELOR OF SCIENCE (BS) IN ARTIFICIAL INTELLIGENCE (AI)

The faculty in the Departments of Computer Science and Data Science, under the umbrella of the College of Computing, seek to establish a Bachelor of Science (BS) degree in Artificial Intelligence (AI). The proposed program recognizes that AI is not only a technical discipline but also a social and ethical one. The curriculum integrates ethical, political, and social considerations alongside core technical training.

With AI's workforce rapidly expanding across areas in computing, healthcare, manufacturing, finance and national security, employers need graduates who can develop new AI algorithms and systems along with hands-on experience in AI tools and applications. While computer science provides broad computing foundations and data science emphasizes statistics and data analysis, this AI degree will focus on designing, developing, and deploying intelligent systems that can learn, adapt, and act in the world, specifically focusing on machine learning and deep learning with electives in natural language processing, computer vision, and robotics. The degree also provides focus areas/tracks where students may deepen their knowledge in areas such as the traditional computer science system, data analysis, or data engineering.

The proposal has been approved by the University Senate and University administration. The University is seeking Board of Trustees approval to advance the proposal to the State Academic Affairs Officers.

RECOMMENDATION: It is recommended that the Board of Trustees approves the Bachelor of Science (BS) in Artificial Intelligence (AI).

4. Masters of Science in Robotics Engineering

VIII-F.3. NEW DEGREE PROGRAM
PROPOSAL TO ESTABLISH A MASTER OF SCIENCE (MS) IN ROBOTICS ENGINEERING

The faculty in the Department of Electrical and Computer Engineering, under the umbrella of the College of Engineering, seek to establish a Master of Science (MS) degree in Robotics Engineering. Building on the Bachelor of Science in Robotics Engineering, the MS serves as a natural progression to prepare graduates for technical leadership roles in the robotics industry and for advanced research in robotics.

With the rapid growth of automation, there is an increasing demand for skilled professionals capable of designing, implementing, and maintaining advanced robotic systems. The MS in Robotics Engineering builds upon existing strengths in robotics systems, control systems, artificial intelligence, biomechanics, mechatronics, and human–robot interaction at the University. It aims to provide rigorous graduate-level education, integrating theory, design, research, and practical applications in robotics – preparing graduates for diverse opportunities across industries such as manufacturing, healthcare, agriculture, aerospace, and defense.

The proposal has been approved by the University Senate and University administration. The University is seeking Board of Trustees approval to advance the proposal to the State Academic Affairs Officers.

RECOMMENDATION: It is recommended that the Board of Trustees approves the Master of Science (MS) in Robotics Engineering.

4. PhD in Electrical & Computer Engineering

VIII-F.4. NEW DEGREE PROGRAM
PROPOSAL TO ESTABLISH A DOCTOR OF PHILOSOPHY (PHD) IN ELECTRICAL AND COMPUTER ENGINEERING

The faculty in the Department of Electrical and Computer Engineering, under the umbrella of the College of Engineering, seek to establish a Doctor of Philosophy (PhD) degree in Electrical and Computer Engineering. The proposed program will meet the needs of engineers seeking training in all areas of electrical and computer engineering. The new degree allows students to determine a flexible mix of coursework in electrical and computer engineering, engineering from related fields, physical sciences, and computer science to meet their educational and career goals, while fulfilling a demanding set of Graduate School and departmental requirements.

This new degree follows current trends to combine Computer Engineering and Electrical Engineering PhD programs, and was a recommendation from the department's last external review. If approved, the department will shelve the existing PhD in Computer Engineering and PhD in Electrical Engineering.

The proposal has been approved by the University Senate and University administration. The University is seeking Board of Trustees approval to advance the proposal to the State Academic Affairs Officers.

RECOMMENDATION: It is recommended that the Board of Trustees approves the Doctor of Philosophy (PhD) in Electrical and Computer Engineering.

G. Establish the School of Health, Human, & Biological Systems
Andrew Storer, Provost and Senior Vice President for Academic Affairs

VIII-G. ESTABLISH SCHOOL OF HEALTH, HUMAN, & BIOLOGICAL SYSTEMS

The College of Sciences and Arts proposes to establish a new school within the college that elevates research and academic programs broadly relating to health. The School of Health, Human, and Biological Systems would encompass the Departments of Biological Sciences, Kinesiology and Integrative Physiology, and Psychology and Human Factors. Faculty from each of these units will contribute expertise in the foundational understanding of complex health, human, and biological systems while supporting applications in real world contexts. The school aligns with other initiatives at Michigan Tech, including the opening of the H-STEM building, construction of the donor funded Chang K. Park Center for Student Wellness, establishment of the Health Research Institute during the first round of Tech Forward initiatives, and the Tech Forward 2.0 initiatives.

RECOMMENDATION: It is recommended that the Board of Trustees approves the formation of a new School of Health, Human, and Biological Systems within the College of Sciences and Arts.

H. Honorary Degree
Andrew Storer, Provost and Senior Vice President for Academic Affairs

VIII-I. FY2027 GENERAL FUND OPERATING BUDGET

The general fund budget was developed based on assumptions regarding tuition and state appropriations. However, when the State budget is approved by the Legislature, if there are changes from these assumptions, the Administration is requesting that the Board allow them the flexibility to revise the budget to reflect a change in appropriations and/or tuition cap while continuing to maintain a balanced budget.

RECOMMENDATION: That the Board of Trustees approves the Fiscal Year 2027 General Fund Operating Budget as presented and authorizes the Administration to revise the general fund operating budget to reflect any changes in state appropriations and/or tuition cap while maintaining a balanced budget and informing the Board Audit and Finance Committee of any such changes that may be necessary.

Michigan Technological University

Fiscal Year 2027 Preliminary General Fund Budget
Revised: 04/23/2026

	FY27 Proposed Budget
OPERATING REVENUE	
Student Tuition and Fees	$ 193,048,751
Federal Grants and Contracts	40,000
State/Local Grants and Contracts	-
Nongovernmental Grants and Contracts	-
Indirect Cost Recoveries	25,440,000
Educational Activities	314,898
Student Resident Fees	-
Sales and Services of Dept Activities	75,000
TOTAL OPERATING REVENUE	$ 218,918,649
OPERATING EXPENSES	
Contingency/Carryforward Reserve	$ -
Salaries & Wages	(104,434,180)
Fringe Benefits	(40,891,163)
Supplies & Services	(21,736,626)
Scholarships and Fellowships	(78,817,142)
Utilities	(5,133,596)
TOTAL OPERATING EXPENSES	$ (251,012,707)
TRANSFERS	
TOTAL TRANSFERS	$ (29,932,983)
NONOPERATING REVENUES (EXPENSES)	
State Appropriations, Operating	$ 58,048,964
Gift Income	3,178,077
Investment Income (loss)	800,000
Federal Grants	
Interest Expense	-
TOTAL NONOPERATING	$ 62,027,041
INCREASE (DECREASE) IN NET POSITION	**$ -**

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Michigan Technological University

Resident Undergraduate Tuition and Mandatory Fee Rate Comparison
State Reporting Requirements

Proposed Fiscal Year 2027

	Freshman	Sophomore	Junior	Senior	Average
Tuition & Fees					
Tier 3 Tuition (Plateau 12-18 Credits)	$ 20,396	$ 20,396	$ 24,770	$ 24,770	$ 22,583
Experience Tech Fee	222	222	222	222	222
Student Activity Fee	160	160	160	160	160
Total Tuition and Mandatory Fees:	**$ 20,778**	**$ 20,778**	**$ 25,152**	**$ 25,152**	**$ 22,965**
% Reported in Downstate Media:	**3.98%**	**3.98%**	**3.99%**	**3.99%**	**3.99%**

	Freshman	Sophomore	Junior	Senior
Tuition & Fees Variance				
Tuition $ Change:	$ 788	$ 788	$ 958	$ 958
% Change:	4.02%	4.02%	4.02%	4.02%
Experience Tech Fee $ Change:	$ 8	$ 8	$ 8	$ 8
% Change:	3.74%	3.74%	3.74%	3.74%
Student Activity Fee $ Change:	$ -	$ -	$ -	$ -
% Change:	0.00%	0.00%	0.00%	0.00%
Total $ Change:	**$ 796**	**$ 796**	**$ 966**	**$ 966**
% Change:	**3.98%**	**3.98%**	**3.99%**	**3.99%**

Approved Fiscal Year 2026

	Freshman	Sophomore	Junior	Senior	Average
Tuition & Fees					
Tier 3 Tuition (Plateau 12-18 Credits)	$ 19,608	$ 19,608	$ 23,812	$ 23,812	$ 21,710
Experience Tech Fee	214	214	214	214	214
Student Activity Fee	160	160	160	160	160
Total Tuition and Mandatory Fees:	**$ 19,982**	**$ 19,982**	**$ 24,186**	**$ 24,186**	**$ 22,084**
% Reported in Downstate Media:	**4.50%**	**4.50%**	**4.47%**	**4.47%**	**4.48%**

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Michigan Technological University

Proposed Fiscal Year 2027 Semester Tuition and Fee Rates

Tuition Rates

	Resident		Non-Resident	
	Tuition Rate per Credit Hour <12 and >18	Plateau Tuition Rate 12 - 18 Credits	Tuition Rate per Credit Hour <12 and >18	Plateau Tuition Rate 12 - 18 Credits
Undergraduate				
Lower Division				
All Majors	$769	$10,198	$1,714	$23,147
Upper Division				
Tier 1	$857	$11,280	$1,827	$24,636
Tier 2	886	11,519	1,858	24,865
Tier 3	1,023	12,385	2,011	25,862

NOTE: Per credit hour rate will apply to undergraduate students enrolled in the summer semester

Tier 1 Majors: Business, Economics, Humanities, Mathematical Sciences, Social Sciences, Visual & Performing Arts

Tier 2 Majors: Forest Resources, Environmental Science, Biological Sciences, Chemistry, Kinesiology & Integrative Physiology, Cognitive & Learning Sciences, Physics, Construction Management, Electrical Engineering Technology, Mechanical Engineering Technology

Tier 3 Majors: Engineering, Computer Science, Computer Network & Systems Admin, Surveying

	Non-Engineering/ Computer Science	Engineering/ Computer Science
Graduate		
Standard Per Credit Rate	$1,448	$1,645
National Service Rate	972	1,103
Research Mode Rate	477	543

Fee Rates

	Per Semester
Undergraduate	
Experience Tech Fee	$111
Student Activity Fee	80
Graduate	
Experience Tech Fee	$89
Student Activity Fee	50

00066

J. Resolution for Approval of External Auditor

Carlos Rodriguez, Board Treasurer

VIII-J. APPROVAL OF EXTERNAL AUDITOR

The University's external auditors (certified public accountants) perform interim audit work prior to the close of our June 30 fiscal year; therefore, it is desirable that they be appointed prior to the end of the fiscal year.

RECOMMENDATION: That the Board of Trustees authorizes the Treasurer to engage the certified public accounting firm Plante & Moran, PLLC to conduct the following audits for the fiscal year ending June 30, 2026:

1. he annual examination of the University's Financial Statements and Supplemental Information (all funds).
2. he annual examination, in accordance with Uniform Guidance, of federal awards and federal student financial assistance programs, including Pell Grants, Education Opportunity Grants, Perkins Loans, College Work Study Programs, and Direct Student Loans.
3. he financial audit of the University's intercollegiate athletics programs, as mandated by the National Collegiate Athletics Association.
4. he subsequent event review procedure for the State of Michigan Annual Comprehensive Financial Report.

IX. Reports

A. Aquatic Ecosystem Ecology at Michigan Tech

Amy Marcarelli, Professor, Department of Biological Sciences

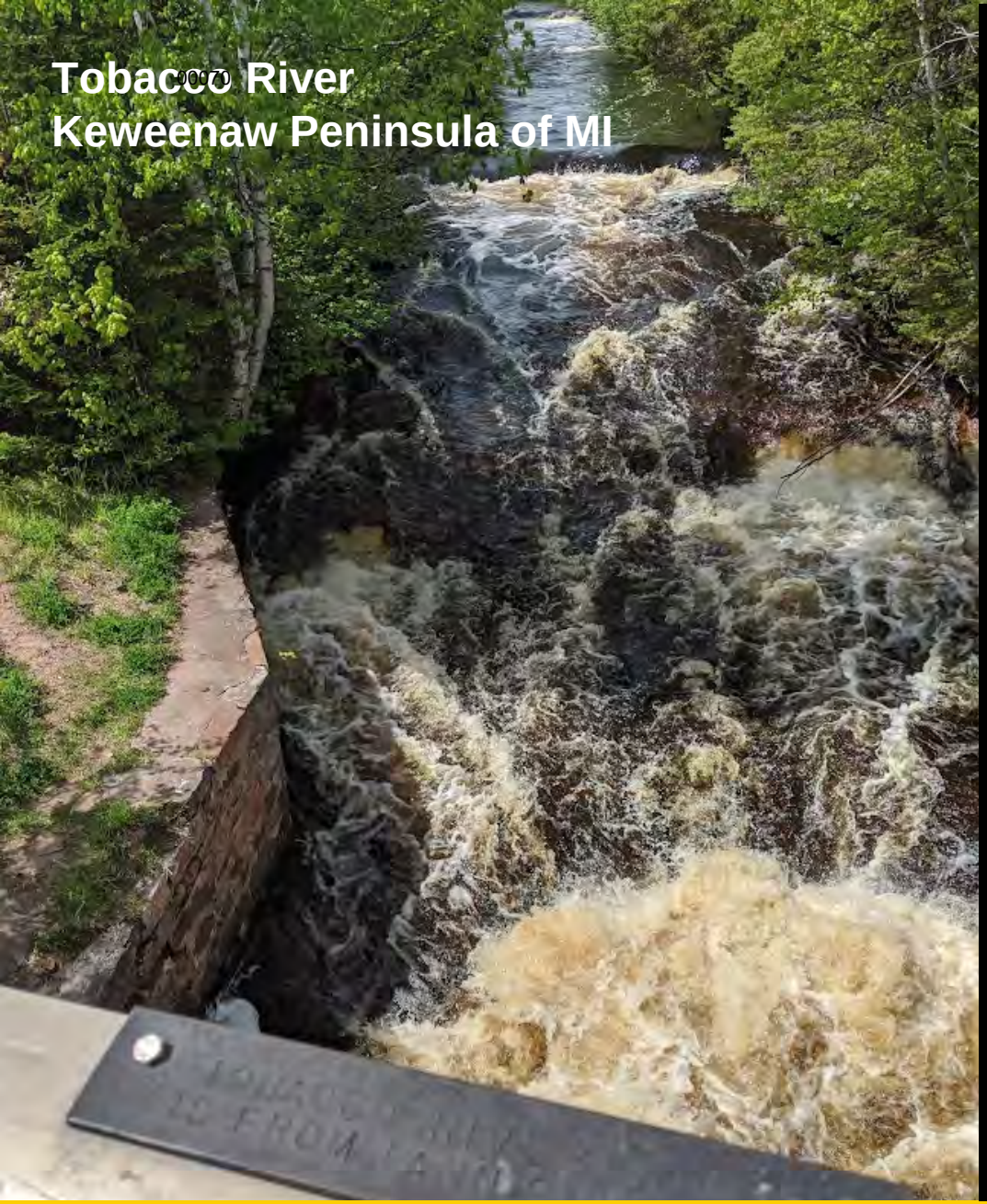
00068

Michigan Technological University

Aquatic Ecosystem Ecology at Michigan Tech: From Fundamental Research to Application

Dr. Amy Marcarelli
Professor of Biological Sciences
Director of the Ecosystem Science Center

1. How do environmental factors control carbon and nitrogen cycling and transport?
2. How do species and communities of organisms modify and transport nutrients?
3. How these processes happen across ecosystem boundaries?



Tobacco River
Keweenaw Peninsula of MI

Salmon-Trout River plume
Lake Superior near Big Bay, MI

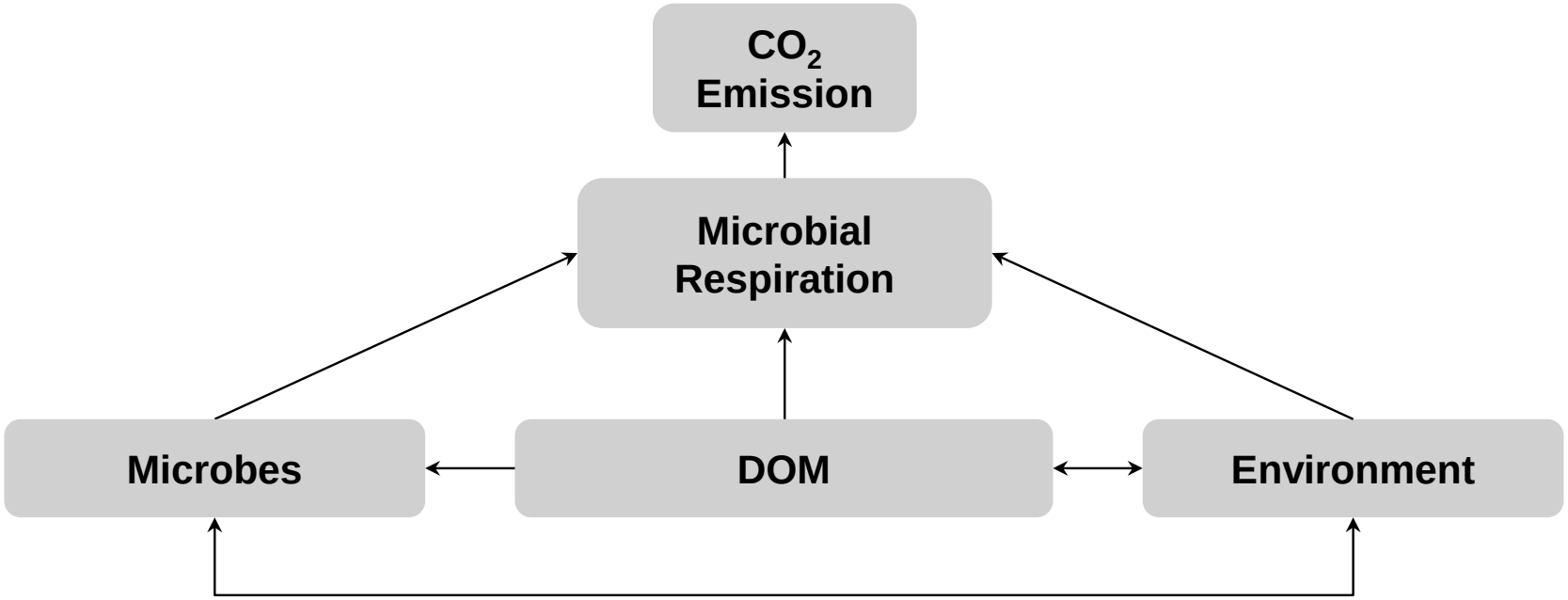
00071

Salmon Trout River near Big Bay, MI

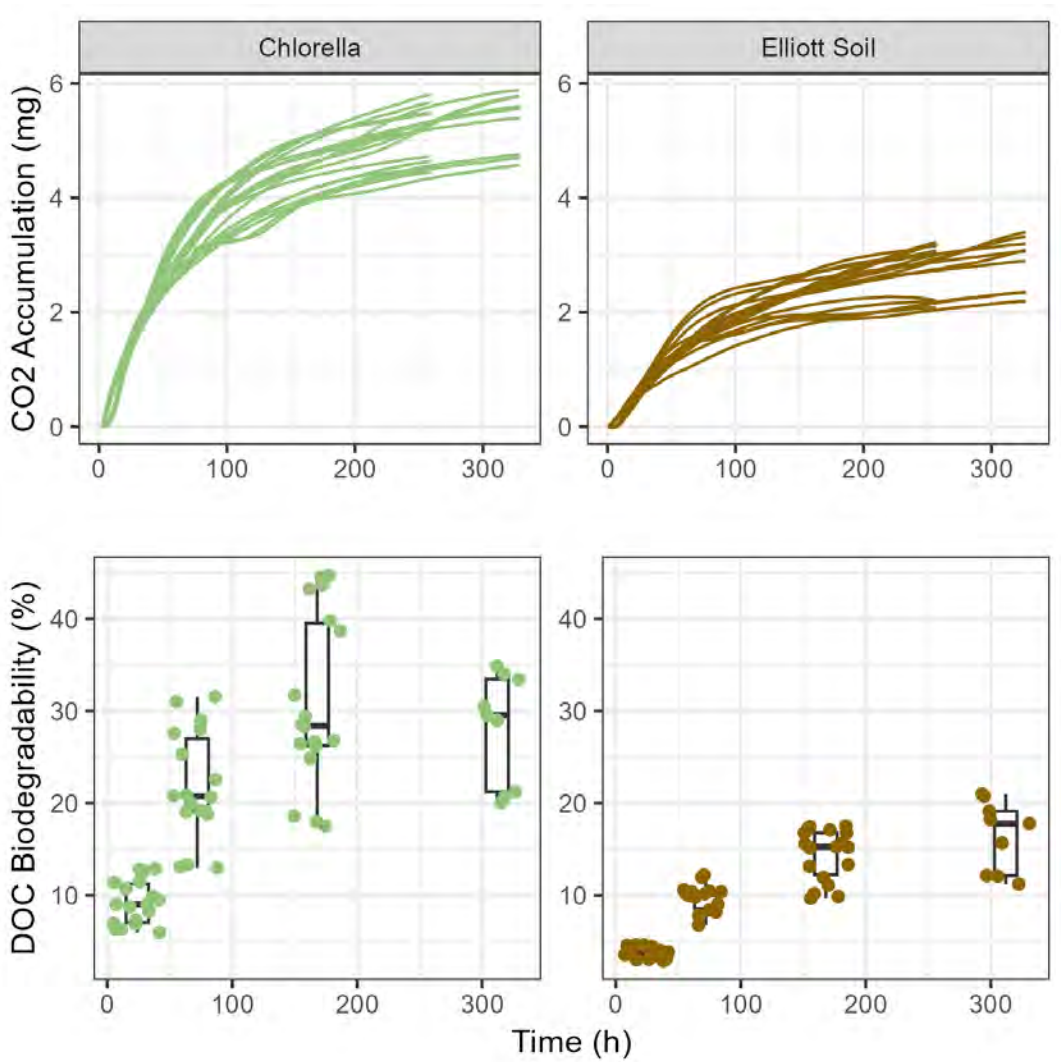
00072

NSF: Can relationships between microbial communities and DOM characteristics explain microbial respiration and CO_2 emissions in forested streams?

2021-2024



Project team:
Amy Marcarelli, Biological Sciences, **Laura Brown**, Computer Science,
Evan Kane, Forest Resources and Environmental Science, **Steve Techtmann**, Biological Sciences



Biochemistry and Molecular Biology PhD student Isaac Bigcraft Setting up an experiment using a MicroOxymax headspace gas respirometer with co-PI Evan Kane collecting samples in the background

DARPA BLUE: BioLogical Undersea Energy

Energy Generation by Dissolved Organic Matter Fueled Microbial Communities (EG-DOM)

- Underwater sensing has greatly expanded our ability to monitor the marine environment.
- Underwater sensors require batteries that have a defined operational period and require replacement and recharging, which limits operational time and increases costs.
- Dissolved organic matter (DOM) is ubiquitous in the marine environment and could serve as a potential fuel for microbial fuel cells to power underwater sensors.

00075

Amy Marcarelli
PI-MTU

Sulihat Aloba
Project Integrator

Stephen Techtmann
Co-PI-OSU

Ian Schlegel
PostDoc

Fawad Ullah
Graduate Student

Andrea Senyk
Technician

Malik Sankofa
Technician

Jennifer Becker
Co-PI-MTU

Aryama Raychaudhuri
PostDoc

Soham Kulkarni
Research Engineer

Jayden Janusiak
Graduate Student

Tyler Peskie
Graduate Student

Gordon Parker
Co-PI-MTU

Lily Karg
Graduate Student

Vanessa Cubillos Tellez
Technician

Lily Williston
Technician

Caleigh Meehan
Technician

Jamey Anderson
Co-PI-MTU

Travis White
Research Engineer

Walker Nelson
Research Engineer

Michael Sayers
Co-PI-MTU

Sarah Kitchen
Research Engineer

Zane Almquist
Research Scientist

Ray Watkins
Research Scientist

Mario Tamburri
Co-PI-UMCES

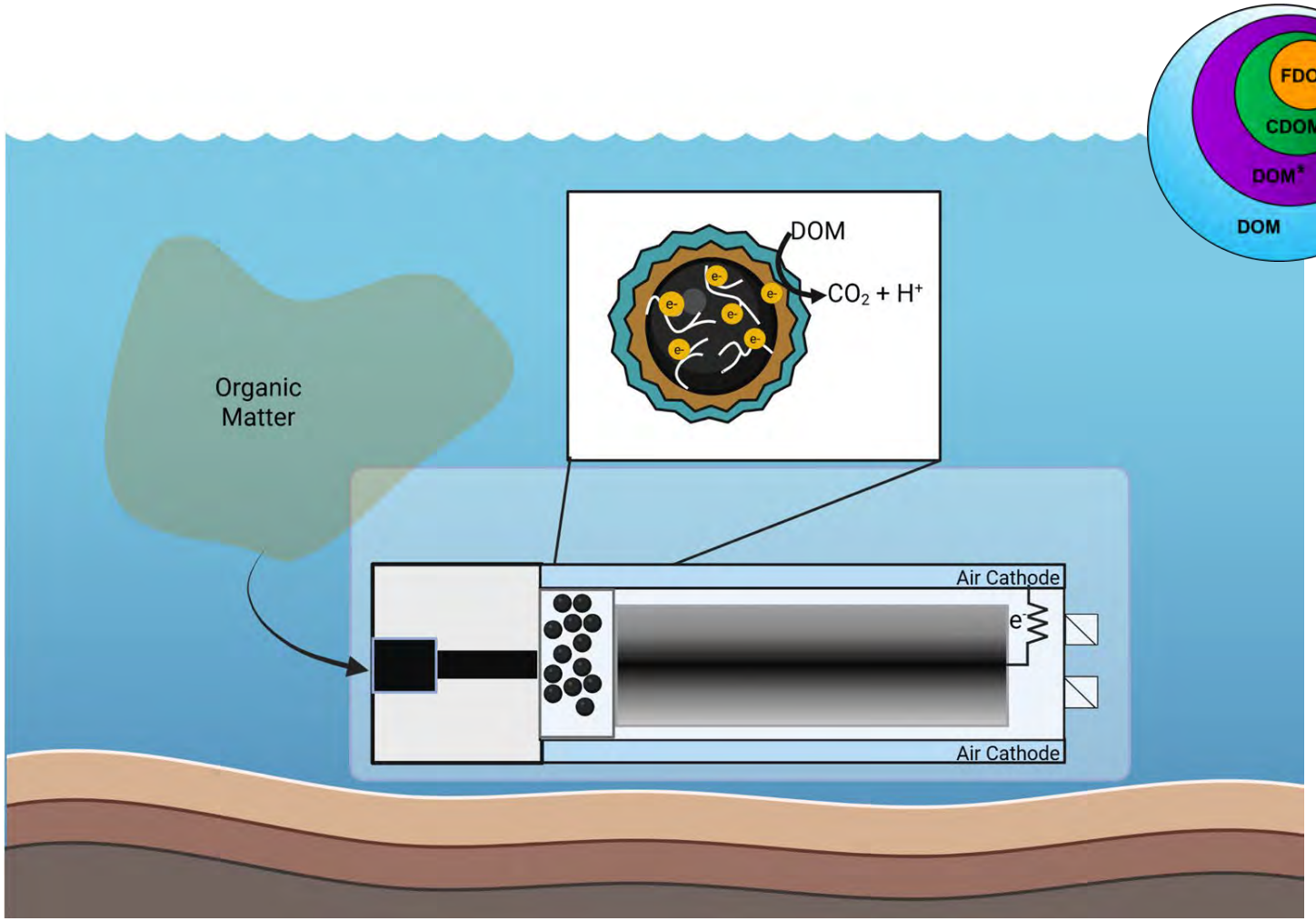
Juliana D'Andrilli
Co-PI-UNT

Bilal Aftab
PostDoc

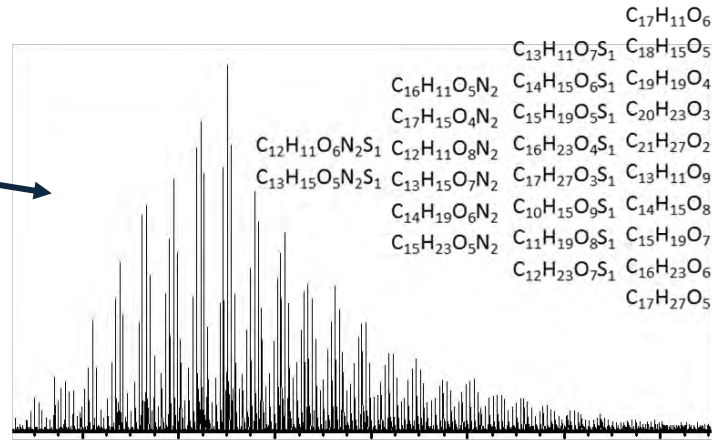
Emily Coronado
Technician

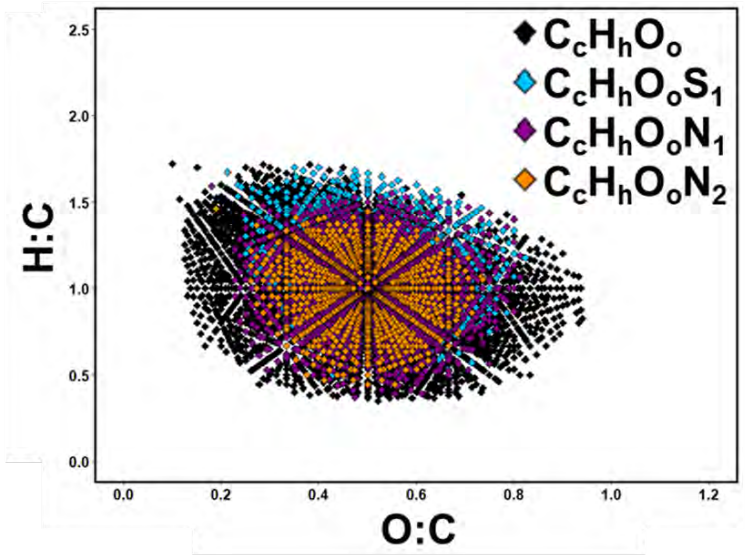
Phase 1:
October 2024 – June 2026

00076


Organic
Matter
DOM
$CO_2 + H^+$
e-
Air Cathode
Air Cathode

FDOM
CDOM
DOM*
DOM


$C_{17}H_{11}O_6$
$C_{13}H_{11}O_7S_1$ $C_{18}H_{15}O_5$
$C_{16}H_{11}O_5N_2$ $C_{14}H_{15}O_6S_1$ $C_{19}H_{19}O_4$
$C_{17}H_{15}O_4N_2$ $C_{15}H_{19}O_5S_1$ $C_{20}H_{23}O_3$
$C_{12}H_{11}O_6N_2S_1$ $C_{12}H_{11}O_8N_2$ $C_{16}H_{23}O_4S_1$ $C_{21}H_{27}O_2$
$C_{13}H_{15}O_5N_2S_1$ $C_{13}H_{15}O_7N_2$ $C_{17}H_{27}O_3S_1$ $C_{13}H_{11}O_9$
$C_{14}H_{19}O_6N_2$ $C_{10}H_{15}O_9S_1$ $C_{14}H_{15}O_8$
$C_{15}H_{23}O_5N_2$ $C_{11}H_{19}O_8S_1$ $C_{15}H_{19}O_7$
$C_{12}H_{23}O_7S_1$ $C_{16}H_{23}O_6$
$C_{17}H_{27}O_5$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$C_cH_hO_oS_1$
$C_cH_hO_oN_1$
$C_cH_hO_oN_2$
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O:C
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0.5
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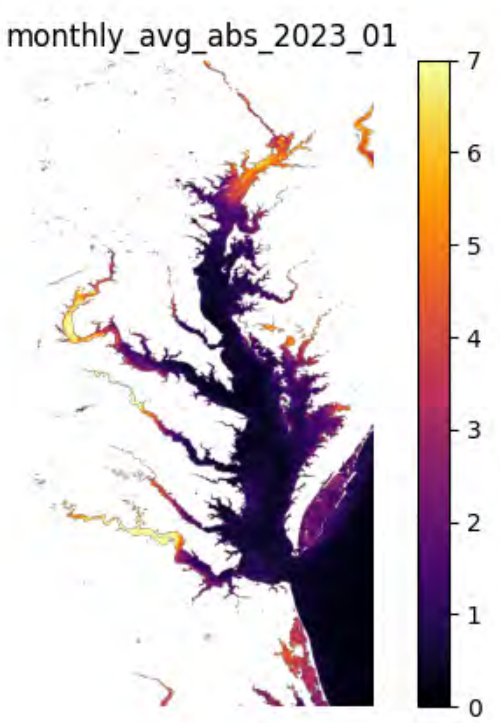
1.5
2.0
2.5
0.0
0.2
0.4
0.6
0.8
1.0
1.2

00077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6
5
4
3
2
1
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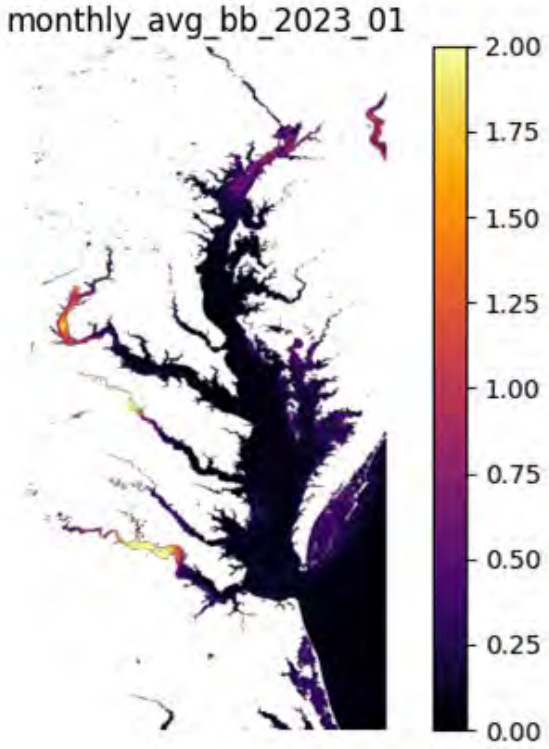
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1.75
1.50
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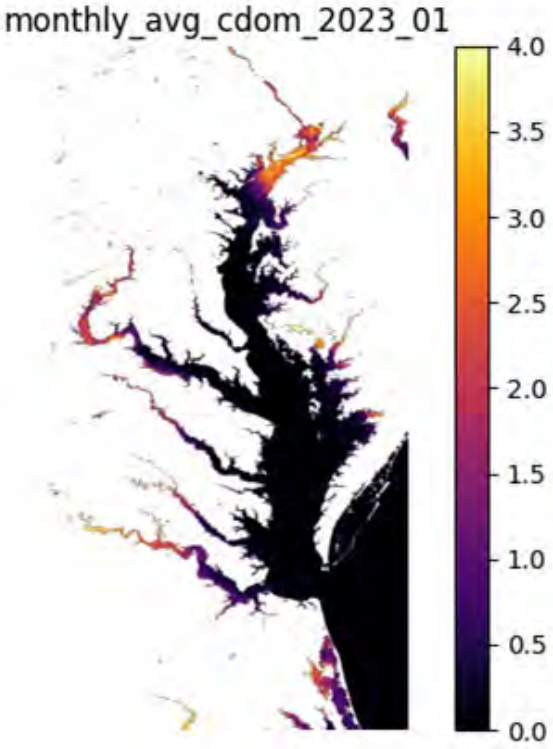
1.00
0.75
0.50
0.25
0.00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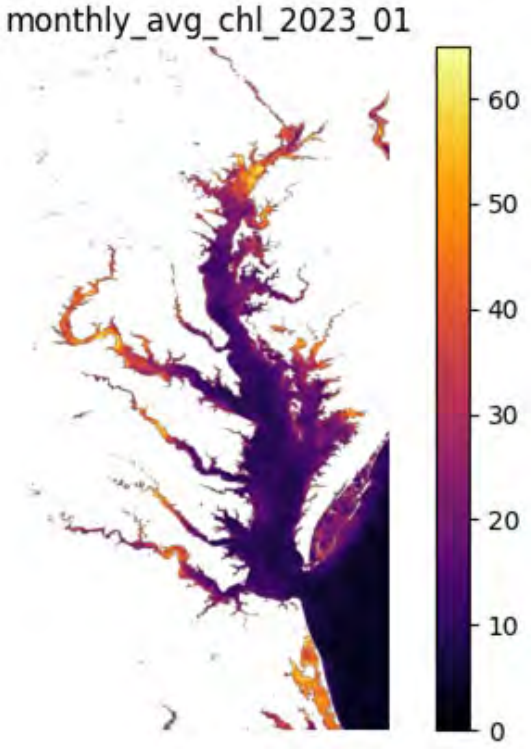
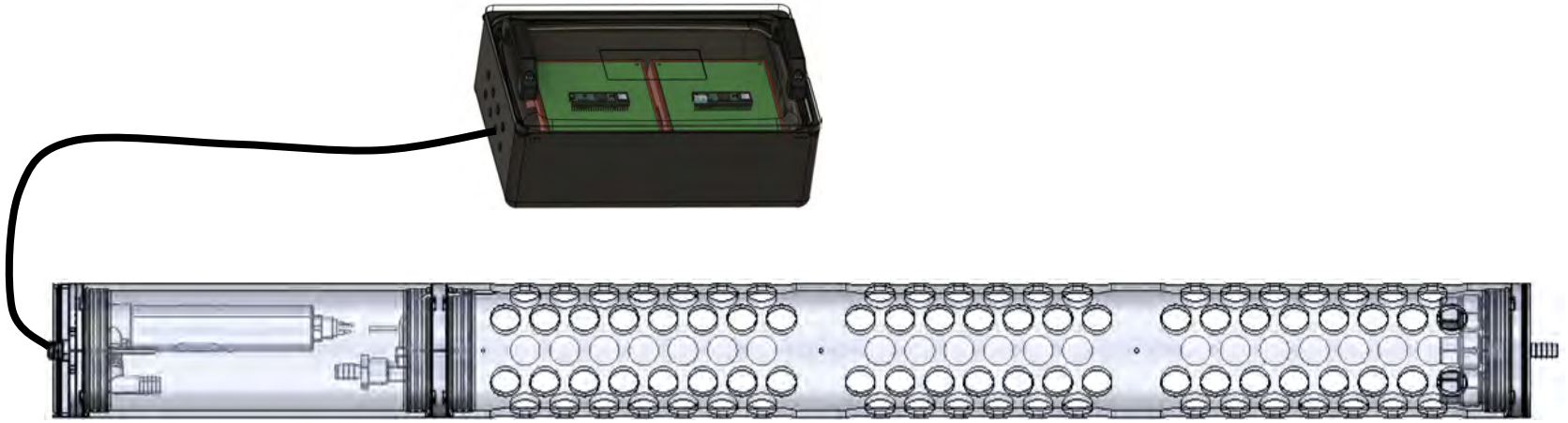
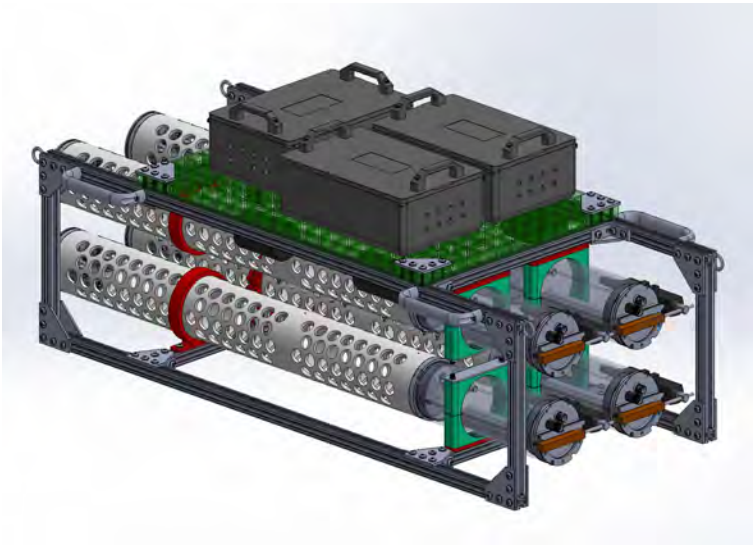
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0

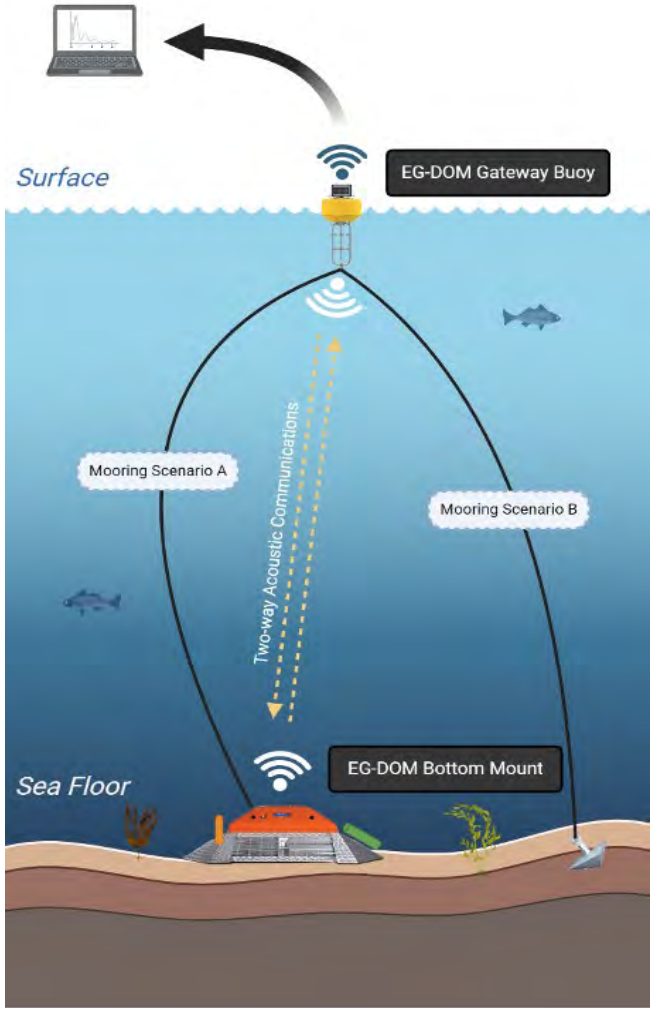

monthly_avg_chl_2023_01
60
50
40
30
20
10
0

00078

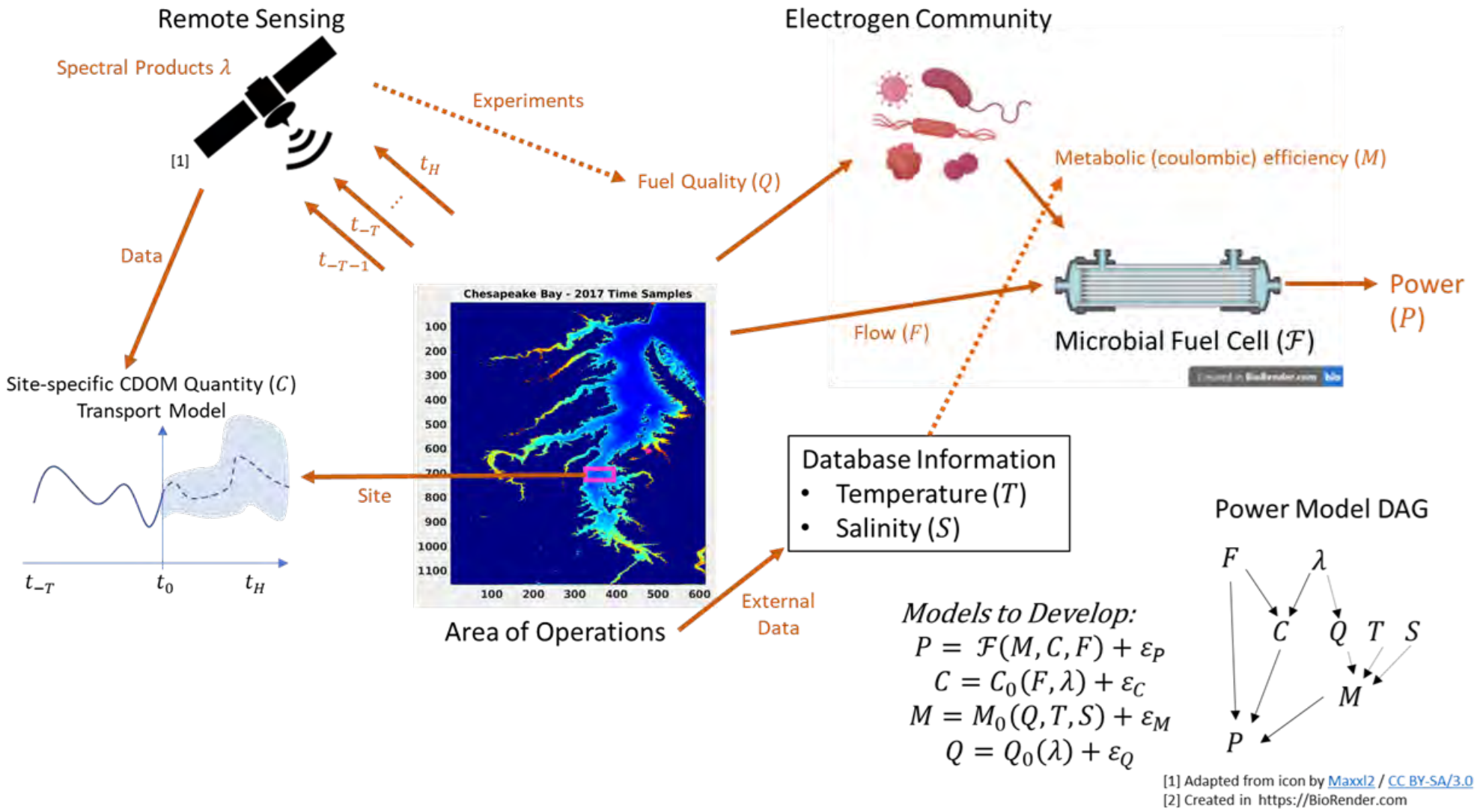
Product 1: Building a field -deployable MFC system







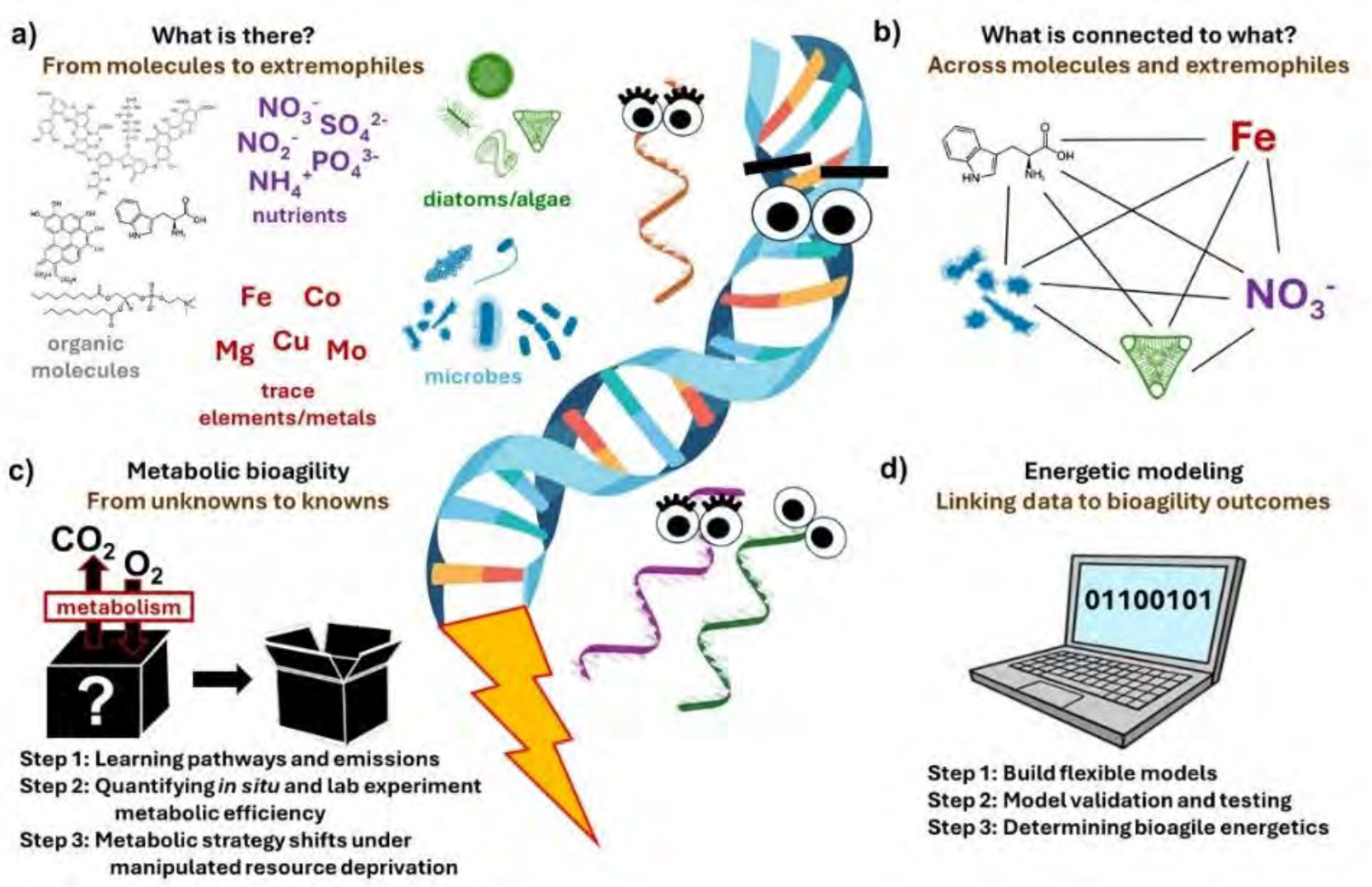
00079



[1] Adapted from icon by Maxxl2 / CC BY-SA/3.0
[2] Created in https://BioRender.com

Product 2: Predictive modeling of system performance

AFOSR: Determining Energetics, Thermodynamics, and Bio -Agile Metabolic Strategies in Extremophiles of Earth's Harshest Ecosystems



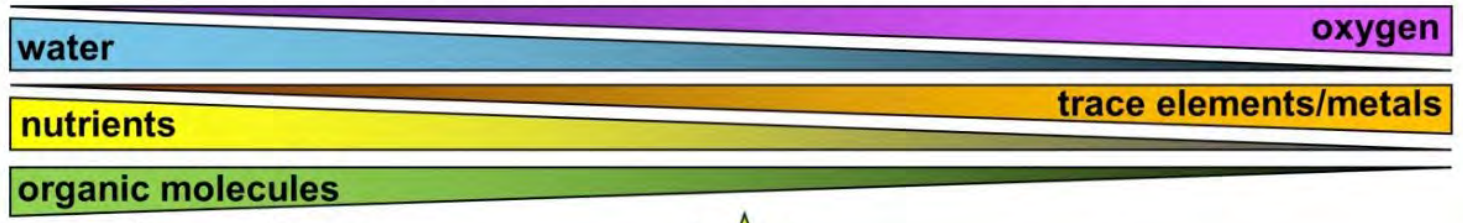
2025 - 2028

Project Team:
Juliana D'Andrilli (UNT): DOM biogeochemistry
Jim Junker (UNT): Food web ecology and modeling
Brandon Gaesser (UNT): Videography
Davi Cunha Gasparini (U. Sao Paolo, Brazil): Environmental Engineering
Marshall Bowles (DISL, USA): Microbial biogeochemistry
Steve Techtmann (OSU): Environmental microbiology
Amy Marcarelli (MTU): Ecosystem Ecology

00081

a)

FIELD SITES SUBSIDY-STRESS GRADIENT AND CONTRAST



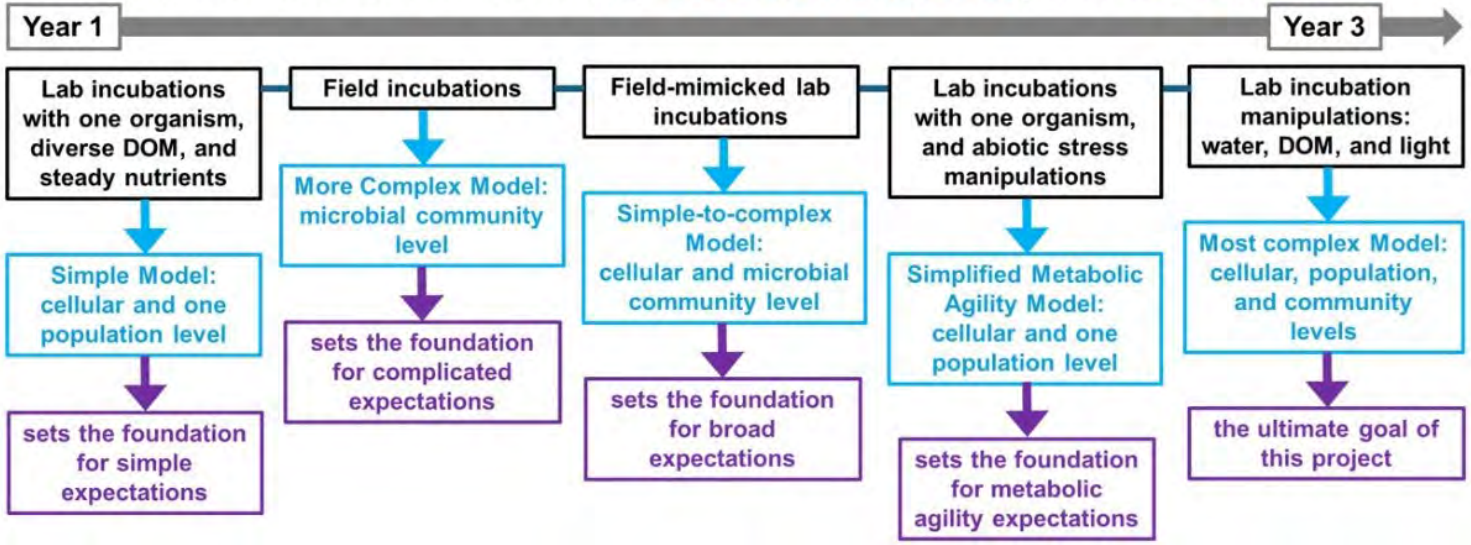
Pantanal hypersaline lake

Light is limiting with increasing water column and soil depth

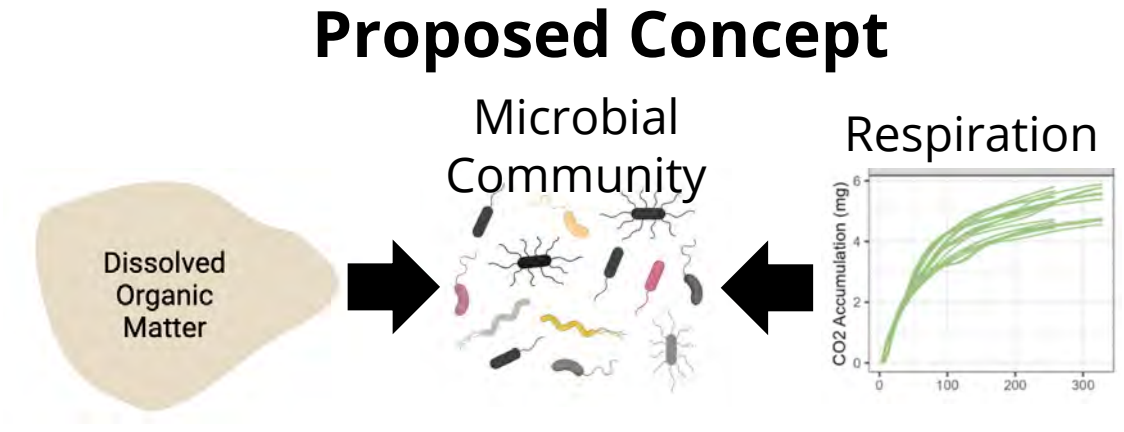
Atacama Desert

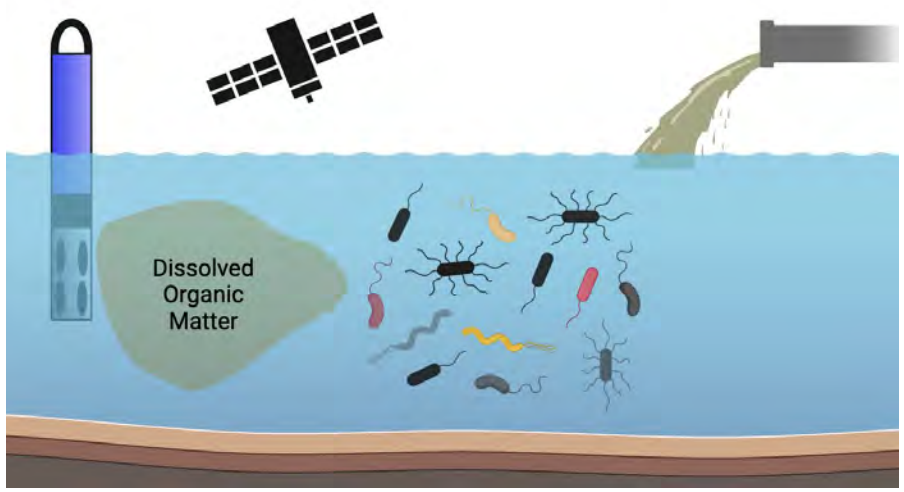
b)

PROGRESSION OF INCUBATIONS, MODELING LINKAGES, AND EXPECTATIONS



Next steps: We can measure the amount of organic matter from space and from sensors – what else can we "measure"?

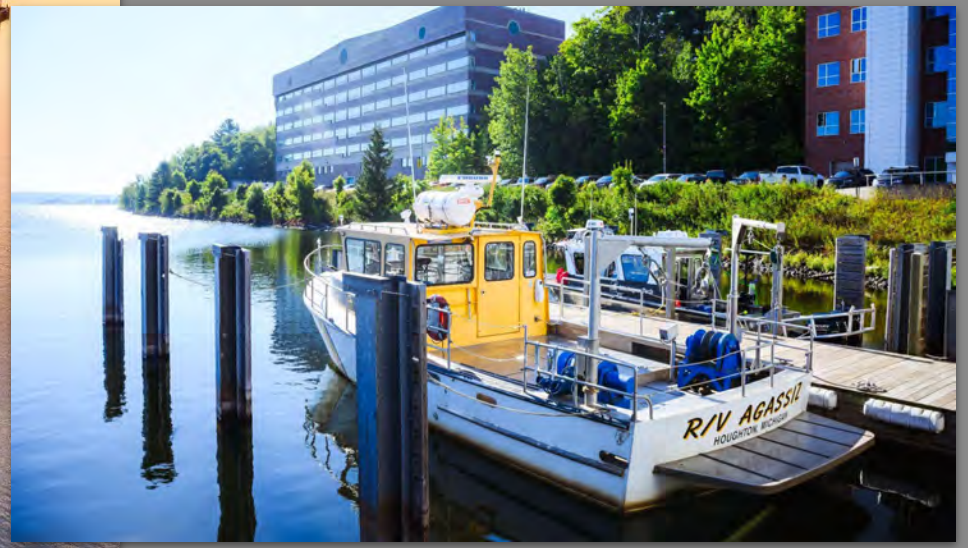




Can we accurately measure organic matter composition from remotely sensed data?

Can we use machine learning models trained on organic matter composition and respiration data to predict microbial community composition?

00083



B. Provost Report

Andrew Storer, Provost and Senior Vice President for Academic Affairs

Provost's Report

Board of Trustees
April 24, 2026

Andrew J. Storer, Provost

Tenure and Promotion Recommendations

13 recommendations for promotions from

- Assistant Professor without Tenure to Associate Professor with Tenure

1 recommendation for promotion from

- Associate Professor without Tenure to Associate Professor with Tenure

5 recommendations for promotions from

- Associate Professor with Tenure to Full Professor with Tenure

00087

Instructional Track Faculty Promotions

Assistant Teaching Professor to Associate Teaching Professor

- Parth Bhatt, College of Forest Resources & Environmental Science
- Stacy Cotey, College of Forest Resources & Environmental Science
- Claire Danielson, Department of Biological Sciences
- Kyle Griffin, Department of Chemical Engineering
- Michael Maxwell, Department of Visual & Performing Arts
- Timothy Wagner, Department of Mathematical Sciences
- Travis Wakeham, Department of Biological Sciences

00088

Instructional Track Faculty Promotions

Associate Teaching Professor to Teaching Professor

- Maria Bergstrom, Department of Humanities
- Jeana Collins, Department of Chemical Engineering

Reviews for Reappointment

74 tenure-track faculty reviews

32 major reviews of tenure-track faculty for reappointment

- Recommendations forwarded for approval to the Board of Trustees

42 interim reviews* of tenure-track faculty for continuing appointment

120 instructional-track faculty reviews*

- Instructional-track faculty reviewed for reappointment or continuing appointment
- Professors of Practice reviewed for continuing appointment

* Board approval not required for interim reviews of tenure-track faculty, or for reappointment or continuing appointment of instructional-track faculty

00090

Emerita/Emeritus Faculty
Approved in AY 2025-26

Dr. Mari Windsor Buche, Professor Emerita, College of Business

Dr. Gary L. Campbell, Professor Emeritus, College of Business

Dr. Jaroslaw W. Drelich, Professor Emeritus, Dept. of Materials Science & Engineering

Dr. Sonia Goltz, Professor Emerita, College of Business

Dr. Patricia Heiden, Professor Emerita, Department of Chemistry

Dr. Miguel Levy, Professor Emeritus, Department of Physics

Dr. Linda Ott, Professor Emerita, Department of Computer Science

New Dean - College of Business

Dr. Sri Beldona

Joins COB July 1, 2026

ESSENTIAL EDUCATION

- Led by Dr. Marika Seigel, Associate Provost for Undergraduate Education and Dean of the Pavlis Honors College
- Full launch Fall 2025
- Culmination of years of work by a large number of faculty and staff
- Follows Senate proposal 18-23
- Six course list teams and a 21-member Essential Education Steering Committee
- Continued work to implement as students make their way through the program
- Thank you to everyone who has helped with implementation and delivery of this program and its components!

00093

Essential Education Minors

- Add value
- Highlight for employers what students have done
- Attract the best students

Launched Fall 2025

AI Ethics (HU)

Creativity & Expression (VPA)

Economics & Society (COB)

Entrepreneurship (COB)

Human-Centered Design (PHF)

Leadership (Pavlis)

Population Health (KIP)

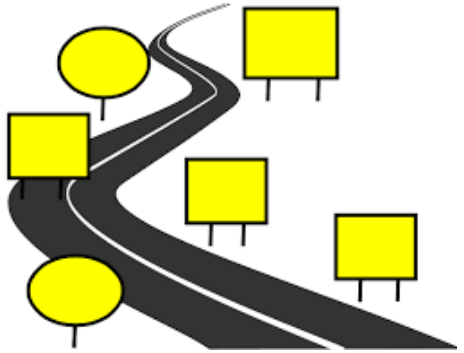
Public Policy & Law (SS)

Sustainability Studies (SS)

Curriculum Roadmap Working Groups

Undergraduate curriculum roadmap

- Completed Spring 2025
- Impacts: Implementation of program changes are ongoing



Graduate curriculum roadmap

- Ongoing in 2026 with report due December 2026

Impacts

- Maintain up-to-date curricula that engage students and prepare them to meet the needs and expectations of employers
- Add new curricula, update existing curricula, redesign structure of programs

00095

2025-26 Curriculum Changes
Not Requiring Board Approval

5 New Undergraduate Minors

2 New Undergraduate Concentrations

1 Graduate Name Change

7 New Graduate Certificates

10 Programs Shelved – 3 Undergraduate & 7 Graduate

6 Programs Eliminated – all Undergraduate

Impacts: BS in Aerospace Engineering

- 2025 applications: 237
- Fall 2025 enrolled students: 61
- 2026 applications (as of April 7): 597

Thank you to the Department of Mechanical and Aerospace Engineering for delivering this program, including developing the teaching spaces to teach an outstanding, quality program.

100 PhD Working Group

Led by Dr. Will Cantrell, Associate Provost for Graduate Education and Dean of the Graduate School

- Year 1: Culminate an overview of strategies for success
- Year 2: Implementation

Impacts:

- Multiple initiatives in colleges to enhance the number and quality of PhD students, including recruiting and funding students
- Broad campus buy-in and awareness of the project as a strategic priority for Michigan Tech

Tech Forward 2.0

- Campus conversations that were reported on last year led to 8 convener groups around different themes/initiatives and threads/pillars
- Each hosted a focused campus conversation and developed a strategic plan
- Plans reviewed by the Provost and the Vice President for Research
- Strategic plans served as the foundation for identifying four Tech Forward 2.0 initiatives

00099

Themes / Initiatives

Critical Resources for the Future	Energy, water, and environmental sustainability, critical minerals
Advanced Technologies for National Security	Computing, AI, cybersecurity, advanced materials, autonomy, manufacturing, sensing
Smart Infrastructure and Communities	Resilient infrastructure, smart communities, transportation, rural community development
Health and Well-being	Health technology, health informatics, biomedical engineering, AI in healthcare, precision medicine

00100

Threads / Pillars

The Digital World	Energy, water, and environmental sustainability, critical minerals
Innovation and Entrepreneurship	Computing, AI, cybersecurity, advanced materials, autonomy, manufacturing, sensing
Rural Community Impact	Resilient infrastructure, smart communities, transportation, rural community development
Education and Workforce Development	Health technology, health informatics, biomedical engineering, AI in healthcare, precision medicine

Conveners

00101

Critical Resources for the Future	Advanced Technologies for National Security	Smart Infrastructure & Communities	Health & Well-being
Lei Pan	Dave Schultz	Val Gagnon	Guy Hembroff
Ana Dyreson	Bhisham Sharma	Keith Vertanen	Smitha Rao Hatti
Luke Nave	Xinfeng Xei	Jason Archer	Hoda Hatoum
Paul Van Susante	Henry Schmidt	Anna Stuhlmacher	Mark. Tang

The Digital World	Innovation and Entrepreneurship	Rural Community Impact	Education and Workforce Development
Vinh Nguyen	Shane Oberloier	Jenny Apriesnig	Brianna Bettin
Evan Lucas	Mike Morley	Richelle Winkler	Aleksandr Sergeyev
Sarah Bell	Len Sweitzer	Pengfei Xue	Nancy Barr
Jun Dai	Ellie Asgari		Kit Cischke

Impact: Four Tech Forward 2.0 Initiative Areas Developed for Review

00102

Shared with the president and president's council	[complete]
Reviewers give feedback on the strategic plans	[complete]
Deans provide feedback	[continuous]
Shared with the conveners	[complete]
Shared with Board of Trustees at the February retreat for ongoing feedback	[continuous]

The Four Tech Forward 2.0 Initiatives

- Human Health
- Critical Resources
- Defense and National Security
- Artificial Intelligence

Academic Affairs Organizational Enhancements

New school

- School of Health, Human, & Biological Systems, College of Sciences & Arts

New department

- Department of Data Science, College of Computing

Program moves:

- Study abroad/study away program moved to the Office of the Provost
- Enterprise program moving to the College of Engineering

00105

2026 Teaching Award Finalists & Inductees into the Academy of Teaching Excellence

- Claire Danielson (Biological Sciences), Assistant Teaching Professor *
- Zack Fredin (Civil, Environmental, & Geospatial Engineering), Associate Teaching Professor
- Terri Frew (Visual & Performing Arts), Associate Teaching Professor
- Evan Kane (College of Forest Resources & Environmental Science), Professor
- Estela Mira Barreda (Humanities), Assistant Teaching Professor
- Gord Paterson (Biological Sciences), Associate Professor *
- Ian Raymond (Humanities), Assistant Teaching Professor
- Stephanie Rowe (Humanities), Associate Teaching Professor
- Laura Sieders (College of Business), Assistant Teaching Professor
- Victoria Walters (Applied Computing), Professor of Practice

* Previously inducted

00106

MASU Distinguished Professor of the Year

Michigan Tech Nominee - Spring 2026

Roger Woods

Teaching Professor

College of Business

Michigan Tech

00107

Distinguished Professor
Spring 2026

Dr. Amy Marcarelli

Professor

Biological Sciences

Michigan Tech

Thank You

C. Undergraduate Student Government
Ford Schoonover, President

00110

APRIL ‘26 REPORT

00111

RECAP

Spring 26' April Report

Undergraduate Student Government
At Michigan Tech

Student Leadership Award Nominations

- Student Group of the Year
- Program of the Year
- Most Improved Organization of The Year

Financial Recap

1364 Purchase Requests

197 Student Orgs Served

Spring 2026

ONGOING

Undergraduate Student Government
At Michigan Tech

Housing Trifold

- University student support services
- Local housing or city offices
- Michigan tenant resources
- Legal aid or tenant advocacy organizations

USG

KNOW YOUR **RIGHTS** as an **Off-Campus** Renter *at Michigan Tech*

Spring 2026

CONFERENCE

Undergraduate Student Government At Michigan Tech

United Student Government Conference Highlights

Brought the Most Representatives of Any Other University

Held as Many Breakout Sessions as the Host

Phenominal Bonding Opportunity For the Body

Spring 2026

Elections
(Results)

Undergraduate Student Government
At Michigan Tech

E-Board Elections

Representative Elections

97% Positions Filled

20 Members Returning

00115

QUESTIONS: USG@MTU.EDU

D. Graduate Student Government

Lauren Sprague, President

00117

Presentation to

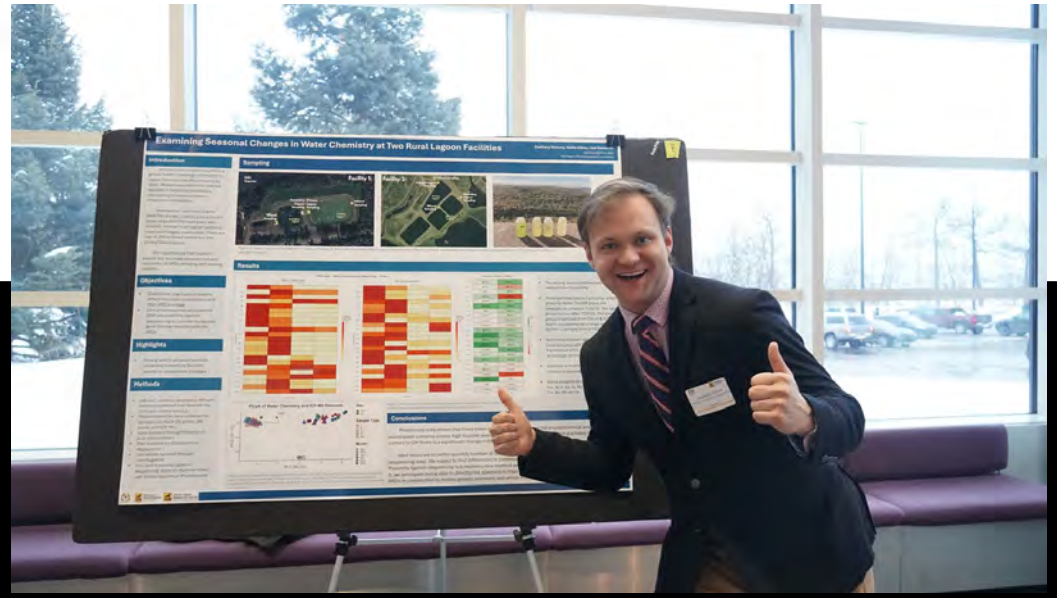
BOARD OF TRUSTEES

Lauren Sprague

GRADUATE STUDENT GOVERNMENT

April 24, 2026

Graduate Research Colloquium



Oral Presentation

First place: William Johnston

Second place: Gifty Afoley Odai

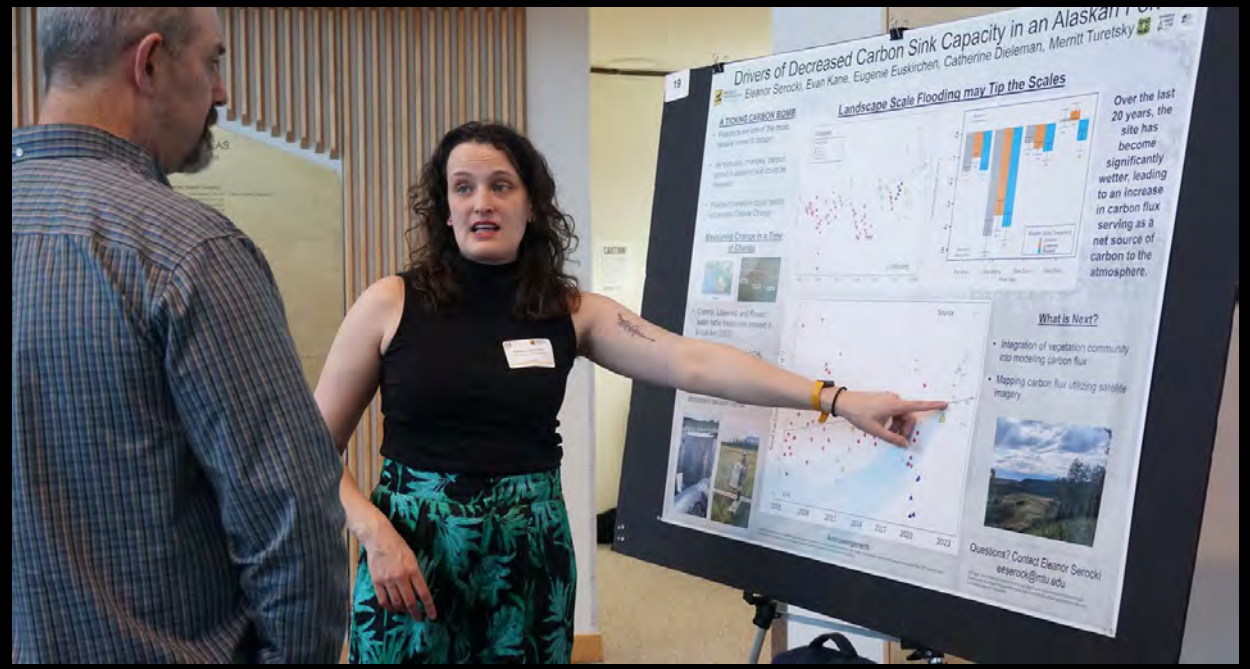
Third place: Houssein Yassin

Poster Presentation

First place: Vedika Khare

Second place: Greyson Wolf

Third place: LillyAnn Nekervis



Thank you to our volunteers & judges!!

Over 100 presentations!

Annual Banquet

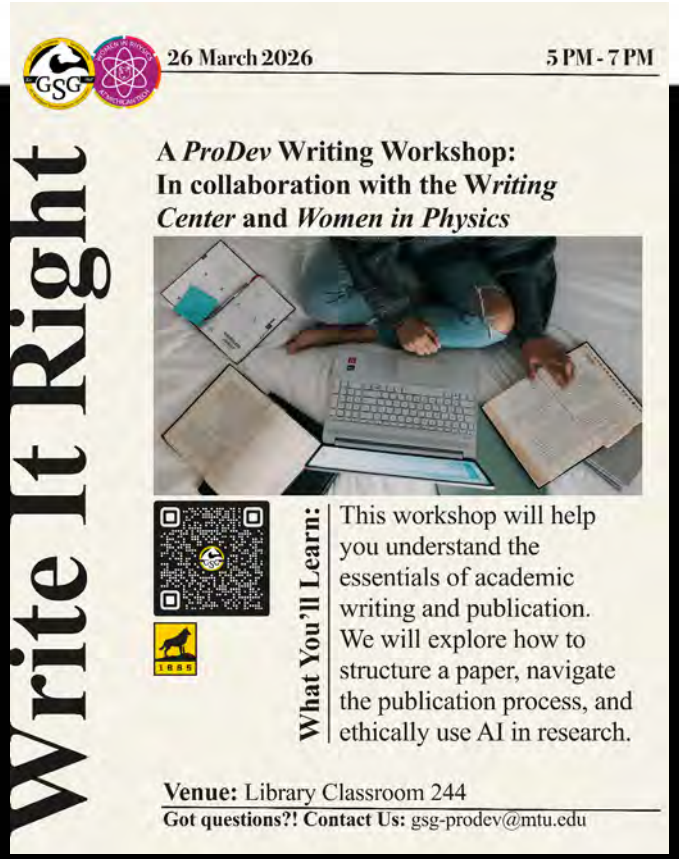
GSG MERIT AWARDS

Exceptional Staff Member
Lynn Manchester
Exceptional Graduate Mentor
Dr. Hoda Hatoun
Exceptional Student Leader
Sindhura Repaka
Exceptional Student Scholar
Caleb Minasian

Training to Teach

Thank you Dr. Holly Hassel, Dr. Tarum Dan, Dr. Thomas Werner, Dr. William Cooke, and Dr. Nilufer Onder

Write it Right



Thank you Writing Center and Women in Physics

Salsa Dancing Workshop

Thank you Natacha Farias & Rogerio Farias for instructing!

Year In Review

22 Department Fall Meet & Greets
Spring Pilot Semesterly GSG Open House

Over 25 Events
Research, Professional Dev, & Social Committees

Grad Commons

+750 swipes*
250 unique students
~26% of on campus graduate students
26 non GSG related events

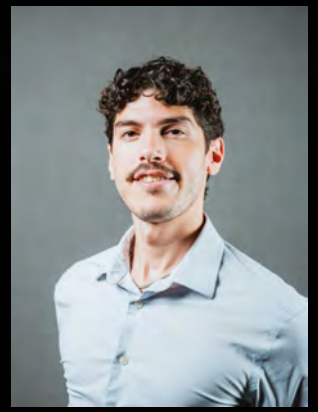
GSG Grants

92 Travel Grants
5 Professional Development Grants

GSG LEADERSHIP 26/27’

Sam Jensen
President

Dhanush Biligiri
Vice President



Shammas Shafi
Secretary

Sindhura Repaka
Treasurer

Mari Leland
Research Chair

Aditya Sairam Cheruvu
Professional Development Chair

Umema Ali
Social Chair

Samantha Stein-Brevitz
Public Relations Chair

00125

E. University Senate

Robert Hutchinson, President

University Senate Update

Robert Hutchinson, Senate President

Michigan Tech

Current Items of Business

- Elections
- Approved:
  - Bachelor of Science in Artificial Intelligence
  - Update to Procedures for Responding to Allegations of Misconduct in Research
  - Modifications to Add and Drop Policy
  - Master of Science in STEM Public Policy
  - Policy on Concentrations in Degree Programs

X. Informational Items

A. Analysis of Investments

MICHIGAN TECH UNIVERSITY
INVESTMENT PORTFOLIO
JUNE 30, 2025 THROUGH FEBRUARY 28, 2026

	Market Value 6/30/2025	Market Value 02/28/2026	Fiscal-Year Investment Return	Benchmark Return	Benchmark
Money Market Fund	$ 11,673,879	$ 2,861,244	2.11%	*2.63%*	*3-Month T-Bill*
Equity Funds:					
Core Equity Fund	-	4,405,171	6.36%	*7.12%*	*S&P 500*
Commonfund OCIO Equity Fund	-	-			
Total Equity Funds	-	4,405,171			
Fixed Income Funds:					
Intermediate Term Fund	7,968,283	9,740,066	3.41%	*3.00%*	*ICE BofA Merrill Lynch 1-3 Yr Treasury*
Commonfund Contingent Asset Portfolio	7,996,890	9,751,024	3.84%	*3.00%*	*ICE BofA Merrill Lynch 1-3 Yr Treasury*
High Quality Bond Fund	3,818,117	4,076,839	5.36%	*4.95%*	*Bloomberg Barclays US Aggregate Bond Index*
Multi-Strategy Bond Fund	2,852,090	4,072,701	4.96%	*4.95%*	*Bloomberg Barclays US Aggregate Bond Index*
Total Fixed Income Funds	22,635,380	27,640,630			
Total	$ 34,309,259	$ 34,907,045	4.10%		

B. Research and Sponsored Programs

Sponsored Activities Summary

Fiscal Year 2026, Quarter Ended 3/31/2026

- Total awards are down 29.7% for FY26 compared to FY25.
- Gifts are down 4.0% for FY26 compared to FY25.
- Federal agency awards are down 35.7% for FY26 compared to FY25.
- Overall Industry activity is down 18.1% over the last fiscal year.
- Preliminary research expenditures are up 6.5% over FY25. Internal research expenditures are up 7.3% while the external expenditures are up 5.9%.

00131

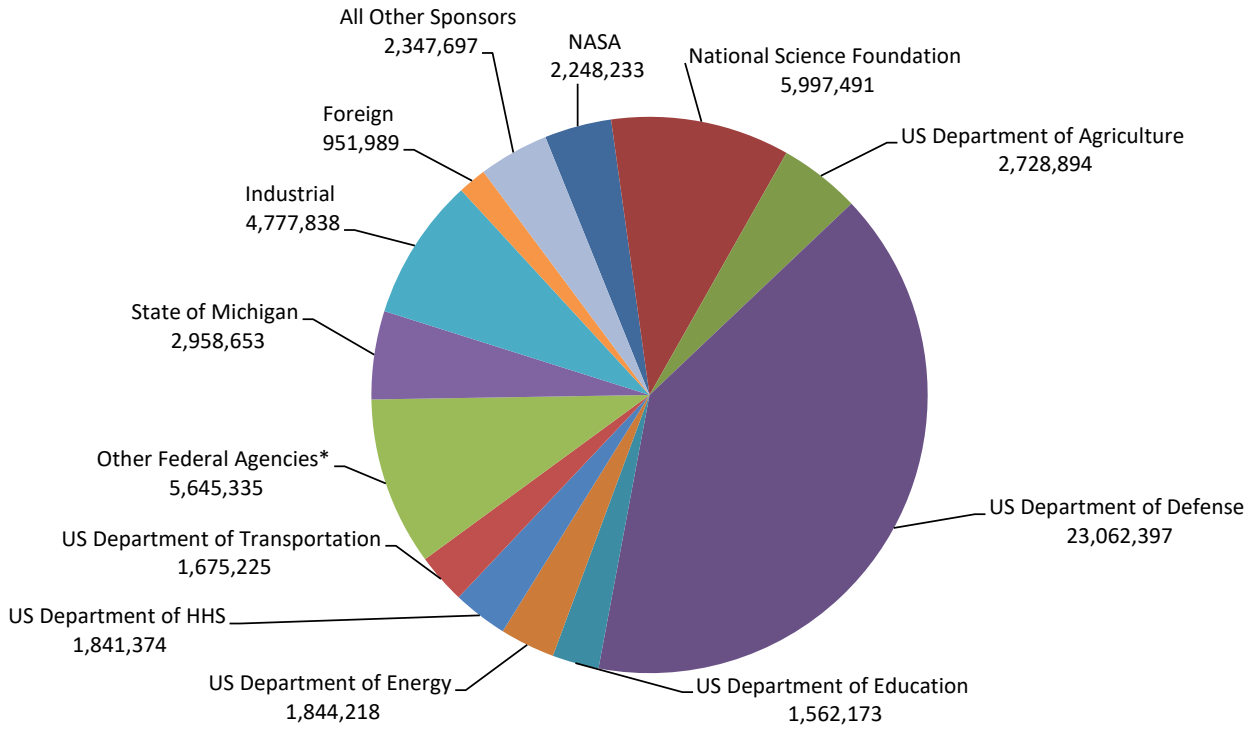
Sponsored Awards
Fiscal Year 2026
3rd Quarter
Ended March 31, 2026

TOTAL: $60,866,880

Pre-Proposals Submitted

(excluded from Proposals Submitted figures below)

FYTD 2025: 49
FYTD 2026: 34



	Proposals Submitted		Awards Received		Awards Received ($)			
Sponsor	FY '26 as of 3/31	FY '25 as of 3/31	FY '26 as of 3/31	FY '25 as of 3/31	FY '26 as of 3/31	FY '25 as of 3/31	Variance $	Variance %
NASA	43	63	26	42	2,248,233	3,935,447	-1,687,214	-42.9%
National Science Foundation	119	128	31	35	5,997,491	7,835,573	-1,838,082	-23.5%
US Department of Agriculture	55	47	32	21	2,728,894	1,454,197	1,274,697	87.7%
US Department of Defense	52	99	73	97	23,062,397	30,482,375	-7,419,978	-24.3%
US Department of Education	1	1	5	5	1,562,173	1,586,307	-24,134	-1.5%
US Department of Energy	20	40	16	38	1,844,218	9,108,901	-7,264,683	-79.8%
US Department of HHS	60	50	7	13	1,841,374	2,562,636	-721,262	-28.1%
US Department of Transportation	13	11	4	11	1,675,225	4,400,455	-2,725,230	-61.9%
Other Federal Agencies*	42	43	34	44	5,645,335	11,170,390	-5,525,055	-49.5%
Federal Agency Total	405	482	228	306	46,605,340	72,536,281	-25,930,941	-35.7%
State of Michigan	47	52	13	21	2,958,653	2,076,760	881,893	42.5%
Industrial	121	111	89	97	4,777,838	6,075,363	-1,297,525	-21.4%
Foreign	11	8	7	6	951,989	1,154,903	-202,914	-17.6%
All Other Sponsors	128	88	46	26	2,347,697	1,418,407	929,290	65.5%
Subtotal	712	741	383	456	57,641,517	83,261,714	-25,620,197	-30.8%
Gifts**	N/A	N/A	258	255	3,218,553	3,351,681	-133,128	-4.0%
Crowdfunding	N/A	N/A	5	4	6,810	25,593	-18,783	-73.4%
Grand Total	**712**	**741**	**646**	**715**	**60,866,880**	**86,638,988**	**-$25,772,108**	**-29.7%**

* Office of the Director of National Intelligence, National Archives and Records Administration, National Endowment for the Arts and Humanities, US Bureau of Land Management, US Dept of Commerce, US Environmental Protection Agency, US Dept of the Interior, US Dept of Homeland Security, US Dept of Labor, US Dept of Treasury, US Small Business Administration

**Gifts represent non-contractual funding from corporations, foundations, associations and societies in support of academic programs, scholarships/fellowships, student design & enterprise, research, youth programs and special programs.

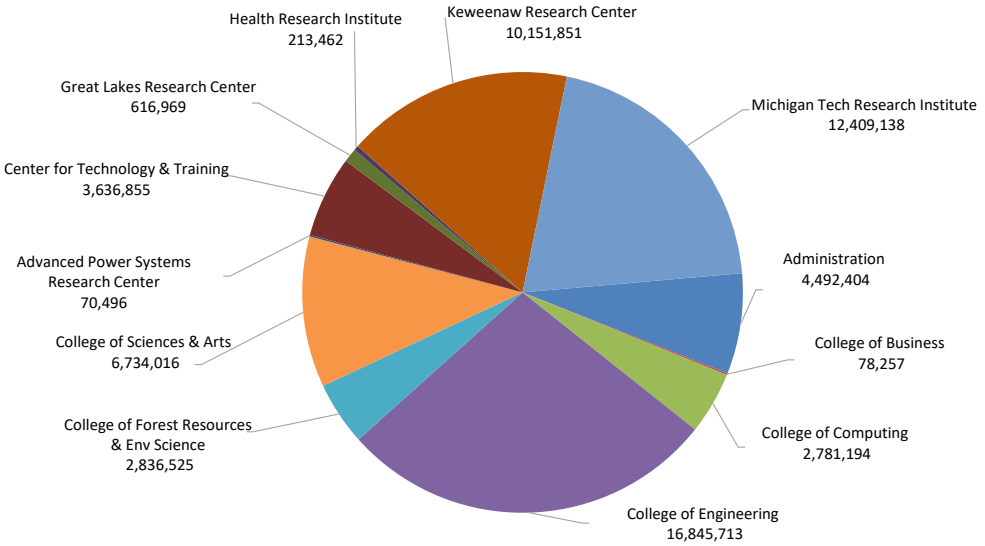
Vice President for Research
Fiscal Year 2026
3rd Quarter
Ended Mar 31, 2026

TOTAL: $60,866,880

Percentages of Tenured & Tenure Track Faculty (as either PI or Co-PI)

Submitting Proposals since 07/01/2025
63.2%

On Active Projects as of 3/31/2026
63.2%



SPO & OIC Metrics[1]	Administration	College of Business	College of Computing	College of Engineering	College of Forest Resources & Env Science	College of Sciences & Arts	Advanced Power Systems Research Center[3]	Center for Technology & Training[3]	Great Lakes Research Center[3]	Health Research Institute[3]	Institute of Computing & Cybersystems[3]	Keweenaw Research Center	Michigan Tech Research Institute	Totals	Fiscal Comparison	Percent Change
Proposals Submitted	32	2	43	360	75	78	9	8	20	6	-	35	44	712	741	-3.9%
Awards Received	179	5	17	233	50	41	3	12	10	2	-	35	59	646	715	-9.7%
Federal	1,747,069	-	1,529,560	8,013,724	2,332,366	6,131,511	-	75,000	-	-	-	7,143,014	7,115,754	**34,087,998**	**51,624,955**	-34.0%
Federal Pass-Through	448,066	-	998,655	3,766,287	184,393	368,173	-	2,096,511	399,703	-	-	-	4,255,554	**12,517,342**	**20,911,326**	-40.1%
Foreign	30,000	-	-	72,778	-	17,381	-	-	-	-	-	-	831,830	**951,989**	**1,154,903**	-17.6%
Gifts	2,156,332	10,000	125,637	716,306	86,528	123,750	-	-	-	-	-	-	-	**3,218,553**	**3,351,681**	-4.0%
Crowdfunding	-	-	462	-	621	103	-	-	1,850	-	-	3,774	-	**6,810**	**25,593**	-73.4%
Industry	25,000	53,757	35,000	1,220,495	174,928	-	70,496	-	5,415	7,684	-	3,005,063	180,000	**4,777,838**	**6,075,363**	-21.4%
Other	64,437	14,500	91,880	1,616,814	51,189	93,098	-	-	210,001	205,778	-	-	-	**2,347,697**	**1,418,407**	65.5%
State of MI	21,500	-	-	1,439,309	6,500	-	-	1,465,344	-	-	-	-	26,000	**2,958,653**	**2,076,760**	42.5%
Total $ by Division	**4,492,404**	**78,257**	**2,781,194**	**16,845,713**	**2,836,525**	**6,734,016**	**70,496**	**3,636,855**	**616,969**	**213,462**	**-**	**10,151,851**	**12,409,138**	**60,866,880**	86,638,988	-29.7%
Fiscal Comparison	5,558,211	21,000	4,000,587	35,493,169	2,452,332	11,084,992	344,116	203,389	2,287,209	-	-	13,926,956	11,267,027	86,638,988		
Percent Change	-19.2%	272.7%	-30.5%	-52.5%	15.7%	-39.3%	-79.5%	1688.1%	-73.0%	N/A	N/A	-27.1%	10.1%	-29.7%		
Disclosures Received[2]	4.54%	-	6.82%	79.55%	-	9.09%	-	-	-	-	-	-	-	**22**	17	29.4%
Nondisclosure Agreements	5	-	6	28	-	3	19	-	2	-	-	14	19	**96**	107	-10.3%
Patents Filed or Issued[2]	-	-	-	55.56%	-	44.44%	-	-	-	-	-	-	-	**9**	8	12.5%
License Agreements	1	-	-	6	-	-	-	-	-	-	-	-	-	**7**	8	-12.5%
Gross Royalties[2]	-	-	27.27%	72.73%	-	-	-	-	-	-	-	-	-	**83,475**	60,475	38.0%

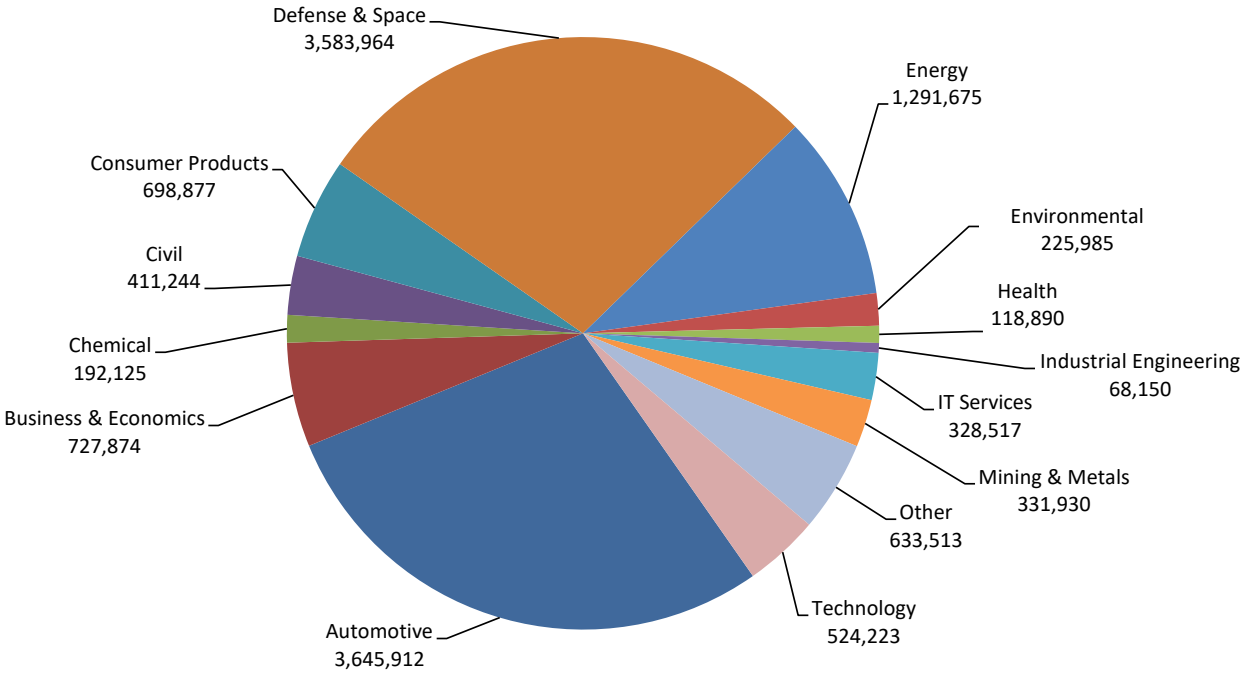
[1] Combined Metrics from both the Sponsored Programs Office (SPO) and Office of Innovation & Commercialization (OIC)

[2] Percentages reflect the proportional contribution from each Division (calculated by dividing the sum of the fractional contributions of all inventors for each unit by the total number of inventors).

[3] Denotes department (non-academic researchers) level activity only. All other institute activity is shown in the researchers' respective colleges.

Sponsored Awards
-Industry-
COMBINED
Fiscal Year 2026
3rd Quarter
Ended Mar 31, 2026

TOTAL: $12,782,879



	Proposals Submitted		Awards Received		Awards Received ($)			
Industry Segment	FY '26 as of 3/31	FY '25 as of 3/31	FY '26 as of 3/31	FY '25 as of 3/31	FY '26 as of 3/31	FY '25 as of 3/31	Variance $	Variance %
Automotive	39	39	60	52	3,645,912	3,447,660	198,252	5.8%
Business & Economics	4	9	18	25	727,874	821,400	-93,526	-11.4%
Chemical	2	5	8	12	192,125	339,409	-147,284	-43.4%
Civil	15	4	42	41	411,244	457,837	-46,593	-10.2%
Consumer Products	20	19	35	43	698,877	793,571	-94,694	-11.9%
Defense & Space	27	34	37	35	3,583,964	3,758,269	-174,305	-4.6%
Energy	4	8	29	13	1,291,675	1,529,590	-237,915	-15.6%
Environmental	3	4	21	11	225,985	186,348	39,637	21.3%
Health	4	12	4	15	118,890	237,514	-118,624	-49.9%
Industrial Engineering	7	9	9	12	68,150	409,153	-341,003	-83.3%
IT Services	8	11	21	71	328,517	1,153,575	-825,058	-71.5%
Mining & Metals	14	9	24	27	331,930	800,640	-468,710	-58.5%
Other	7	15	40	30	633,513	1,045,474	-411,961	-39.4%
Technology	3	17	5	11	524,223	630,818	-106,595	-16.9%
Total	**157**	**195**	**353**	**398**	**12,782,879**	**15,611,258**	**-2,828,379**	**-18.1%**

Michigan Technological University
Total Research Expenditures by College/School/Division
Fiscal Year 2026 & 2025
As of March 31, 2026 and March 31, 2025

College/School/Division	FY2026	FY2025	Variance	%
Administration*	6,009,424	6,546,121	(536,697)	-8.2%
Advanced Power Systems Research Center (APSRC)**	935,259	875,805	59,454	6.8%
Center for Technology & Training (CTT)**	300,093	60,473	239,620	396.2%
College of Business	1,881,054	1,685,297	195,757	11.6%
College of Computing	4,626,022	4,695,099	(69,077)	-1.5%
College of Engineering	37,158,835	32,593,661	4,565,174	14.0%
College of Forest Resources & Environmental Science	4,338,019	5,134,743	(796,724)	-15.5%
College of Science & Arts	15,146,056	15,819,821	(673,765)	-4.3%
Frontiers Research Institute (FRI)**	333,345	N/A	333,345	N/A
Great Lakes Research Center (GLRC)**	2,105,832	1,462,301	643,531	44.0%
Health Research Institute (HRI)**	650,292	N/A	650,292	N/A
Institute of Computing and Cybersystems (ICC)**	355,023	25,463	329,560	1294.3%
Keweenaw Research Center (KRC)	10,089,308	10,861,513	(772,205)	-7.1%
Michigan Tech Research Institute (MTRI)	12,147,404	10,440,812	1,706,592	16.3%
Total	**96,075,966**	**90,201,109**	**5,874,857**	**6.5%**

*Includes the Vice Presidents, Provost, and others who report to a VP, Provost or the President. Except for the research institutes that report to the VPR.

**Includes department (non-academic researchers) expenditures only. All other institute expenditures are shown in the researchers' respective colleges.

C. Advancement & Alumni Relations

Advancement and Alumni Engagement Narrative
Michigan Tech Board of Trustees
April 24, 2026

FY26 AAE Goals and Initiatives to be achieved in collaboration with administrative and academic leadership and the Michigan Tech Fund Board of Directors.

- Launch the campus phase of the campaign engaging the campus community.
- Meet the public launch goal and prepare the university for the public campaign launch.
- Gift annuity analysis and review.
- Enhance and develop procedures to execute MTF policy updates.

FY26 MTF Working Goals

- Donors First
- Build upon the work in FY25 to further the fee analysis and assessment of both the endowment and demand funds.
    - Utilize benchmark data to establish a five-year plan for the demand fund and the endowment.
    - Document the uses of both the demand fund and the endowment fees
- Recruitment of a new board member.
- Execute our mission as we prepare for the public phase of the campaign.

As of February 28, 2026

- $361.9 million or 103% to the campaign goal of $350 million
- $147 million in planned gifts earmarked for the endowment
- $16 million in cash to the endowment
- 71 new agreements, 60 executed agreements and 82 agreements in process
- 8 illustrations were provided to donors
- $21.6 million in planned gifts
- $11.8 million in realized planned gifts
- $4.8 million in major outright gifts and pledges
- $1.2 million in annual gifts under $10,000
- $2.4 million in corporate support
- $1.1 million in foundation gifts

Advancement and Gift Planning

- Charitable Giving: Our immediate focus is on the strategic coordination of our current staff to maintain our strong fundraising momentum. We have successfully exceeded our current campaign goal while ensuring our long-term philanthropic pipeline remains secure.
- Gift Administration: Thanks to the support of Advancement Services and our dedicated student workers, the Gift Administration team is successfully maintaining gift entry and receipt benchmarks while our gift processor is on parental leave.

Donor Stewardship

- Advancement Services: We continue to build upon data indicators and benchmarks in order to maintain and build current and future donor relationships. We are also working to develop a standard suite of reports to support Departmental needs.
- Foundation Relations: Our foundation engagement strategy is currently centered on a dual-track approach of strengthening current partnerships while actively cultivating a new tier of philanthropic prospects. This balanced focus ensures we are securing immediate funding while developing a pipeline for future university priorities.
- Charitable Giving: We continued to welcome donors to campus for tailored visits and engaged with our alumni and friends during home hockey games. Local stewardship outreach took place alongside targeted engagement during Winter Carnival, the Career Fair and Evening of Excellence events.
- Gift Administration: Together with Alumni Communications and Advancement Services, we sent Giving Summary letters to 2,923 donors from 2025, sharing our gratitude along with key highlights from the year.

Travel

- Charitable Giving: Recent travel included visits throughout Michigan, Oregon, Washington, and Wisconsin. In partnership with various Deans, these engagements resulted in securing support for Athletics; the Field House Project; the College of Business; the Department of Biological Sciences; the Department of Chemistry; the Department of Civil, Environmental, and Geospatial Engineering; and the continued growth of funds for Scholarships and Fellowships along with the Annual Fund.

Campus Collaboration

- Advancement Services: On-going end user training using CRM Advance Dashboards and WebFocus reports for campus partners. Identifying additional reporting needs for MTF through work with our Finance partners and IT. Continuing contributions to the University's Data Governance project through report summary and data definition. Support through delivery of self-service reporting via CRM Advance to our internal team members (Alumni Engagement) for event needs.
- Charitable Giving: In collaboration with the Alumni Engagement team and various academic departments, we are currently organizing a series of strategic mini campaigns to drive targeted support for specific initiatives. To further this alignment, our entire advancement team recently gathered on-campus to ensure the continued success of our efforts. Initiatives include scholarships and fellowships, the Enterprise program, a turf facility, and ChemSci renovations.
- Gift Administration: Our ongoing partnership with Student Financial Services and the Graduate School continues to support donor-funded awards, with 20 new scholarships and fellowships established this fiscal year.

Professional Development

- Our team will present Creating a Culture of Moves Management at the August 2026 APRA Prospect Research conference to share the success of a system we built and successfully implemented. This session explores the collaborative framework we developed between Advancement Services and frontline fundraising, which has significantly improved our data

efficiency and portfolio management. By utilizing sophisticated data points to identify the donors most likely to give, we have been able to align our efforts with University and donor goals. Since putting this system into practice, we have strengthened our deliberate and strategic workflows to support both the current campaign and those to follow. We look forward to sharing with our peers how these proven strategies build a strong pipeline while driving the long-term momentum necessary for sustained fundraising success.

Metrics

- Advancement Services: 1,493 tickets received/ 1,474 tickets resolved
- 714 prospects researched and updated
- Gift Administration: 4,487 gift processed

Alumni Engagement & Annual Giving Updates

The Alumni Engagement & Annual Giving (AE&AG) team continues to execute its mission to cultivate significant, mutually beneficial, lifelong relationships with alumni through three key pillars: events, communications, and volunteerism. Updates below reflect work done under each pillar.

Annual Giving

- Annual Giving efforts continue to focus on participation and unique donor counts through an omni-channel approach to mass solicitations, working with campus partners on department objectives, special crowdfunding or unique initiatives, and more.
- AE&AG partnered with the Pep Band Director to create a crowdfunding project and mass-appeal effort around purchasing a new Pep Band Truck. The project exceeded its $11k goal, raising $12,026. https://give.mtu.edu/project/47962
- FY26 Give Back to the Pack: Michigan Tech's 24-hour giving challenge
    - **April 7-8, 2026.**
    - This will also serve as the public launch for the capital campaign, and materials around GBTP will emphasize that participation in the 24-hour giving challenge will also count towards overall goals in The Campaign for Michigan Tech.
- FY26 FYE: Make you Mark on Campus
    - We will be featuring the East campus Paver Project (https://give.mtu.edu/project/48892) & Alumni Legacy Dorm Wall Experience (https://give.mtu.edu/project/48787) in our FYE Mail and Email pieces.

Events

- Mar 19: Detroit Alumni & Friends Social hosted by CoE EAB
- April 10: Pavlis Honors College 10th Anniversary
- May 16: Berlin, Germany Alumni Student Social
- May 16: Yooper Day at the Timber Rattlers Picnic + Baseball Game
- July 30-August 1: Reunion 2026

D. Media Coverage

00138

Michigan Tech

Earned Media Report

February 7, 2026 - April 3, 2026

From Feb. 7 to April 3, 2026, Michigan Tech was mentioned in more than **7,300** media stories across local, regional, and national outlets. These stories reflected the span of university activity, from innovative research and faculty expertise to athletics, student success, alumni achievements, and administrative appointments.

Coverage reached audiences online, in print, and on-air, helping to elevate Michigan Tech's visibility and reinforce the university's reputation as a top-tier R1 research institution.

Media Impact Overview

- **Total Mentions:** 7,345 articles
- **Total Engagement:** 14,586 shares or comments on social media
- **Journalist Reach:** 4.5M unique viewers

Media Coverage Highlights

Reputation and Rankings

Lansing's 517 Mag mentioned Michigan Tech in its April business briefs, highlighting new data on the statewide economic impact of research at Michigan's R1 universities, including job creation and broader economic contributions. Michigan Business Network and other outlets also referenced Michigan Tech in coverage of a Research Universities for Michigan (RU4M) report detailing the statewide impact of public university research and innovation.

Reach: National + Regional

Research and Expertise

Natural Resources, Water, and Energy

The Washington Post featured Robert James Laverne (CFRES) in a story about the connections people form with trees and the benefits of those relationships. Laverne explained how people can develop connections with trees through greater awareness of what they provide.

The Alpena News and Iron Mountain Daily News quoted Rolf Peterson (CFRES) in coverage of a study finding that most wolf deaths in Michigan are caused by humans, including illegal kills, vehicle collisions and legal hunting. Additional outlets, including MLive, Keweenaw Report, and Minnesota's WTIP 90.7 FM, referenced Michigan Tech's long-running Isle Royale wolf-moose study in stories examining winter fieldwork, population trends and ecosystem dynamics.

Reach: National + Natural Resources

Health and Quality of Life

Iowa's Quad City Times mentioned Michigan Tech in a story previewing UnityPoint Health's 2026 Heart to Heart Community Education Series, highlighting University research on e-cigarettes that found increased heart rate and sustained elevated blood pressure in healthy young adults after vaping.

My UP Now also reported that Michigan Tech Ph.D. students Kamand Sedaghatnia (chemistry) and Zixin Shi (computational science and engineering) earned Blue Cross Blue Shield of Michigan Foundation grants to support health-related research projects.

Reach: National + Regional + Health

Sustainability and Resilience

Science quoted Jared Wolfe (CFRES) in a feature examining mysterious bird declines in intact tropical forests, highlighting his research in the Brazilian Amazon on how shifting rainfall and rising temperatures may be affecting bird survival and breeding. His team’s findings were highlighted on Michigan Tech’s Unscripted Research Blog and Re:Generations Magazine.

Reach: National + Sustainability

Autonomous and Intelligent Systems

National Geographic, Yahoo! News, and AOL mentioned Michigan Tech in a story about using artificial intelligence to detect dangerous volcanic mudslides known as lahars, highlighting

research by Gregory Waite (GMES) and alum Gustavo Béjar López ’25 (Ph.D. Geology). Béjar López’s research was previously featured on Michigan Tech’s Unscripted Research Blog.

GPS World also mentioned Michigan Tech in a story about a collaboration using GIS technology to geolocate 11,000 historical images from Michigan’s Copper Country, improving searchability and providing richer context for archival materials.
Reach: National + Autonomous Systems + Artificial Intelligence

Policy, Ethics, and Culture
Chelsea Schelly (SS) was quoted by the BBC in a story about a sustainable community in Colombia and its approach to locally adapted technologies. Schelly discussed the importance of designing technologies that respond to specific environmental and community needs.
Reach: International + Policy + Ethics

Education for the 21st Century
MLive, the Port Huron Times Herald, and Fox 2 Detroit mentioned Michigan Tech’s Mind Trekkers in coverage of regional STEM festivals, highlighting hands-on activities and demonstrations designed to engage students and families in science and technology.
Reach: Regional + K–12 Education + STEM Outreach

Campus and Community

Arts & Culture
MLive, WNMU-FM, the Daily Mining Gazette, and WLUC TV6 covered Michigan Tech’s Winter Carnival, highlighting snow statues, the All-Nighter, winter games, and the event’s impact on the Keweenaw community.
Reach: Local + Regional

Athletic Excellence
Regional and national outlets highlighted Michigan Tech Athletics’ postseason success and individual honors. The Keweenaw Report, WLUC TV6, the Green Bay Press-Gazette, and the Daily Mining Gazette covered the men’s basketball team’s run to the NCAA Division II Elite Eight, the first in program history. WZMQ 19 News, the Daily Mining Gazette, and other outlets also highlighted Marcus Tomashek being named an NABC All-American, NABC All-District First Team, and D2CCA First Team All-Region, while hockey coverage recognized Stiven Sardarian

as CCHA Forward of the Year and Jack Anderson's NHL signing with the Dallas Stars.
Reach: Regional + National + Athletics

Alumni Achievements

9&10 News, NCAA.org, and the Petoskey News-Review featured Reid Goble '21 (B.S. Biological Sciences) in coverage of his role as guide for Paralympic gold medalist Jake Adicoff in Italy. MLive also featured alum Madelyn Jones '22 (B.S. Biochemistry and Molecular Biology) in a story about Grand Rapids Community College's student-run brewery, where she said her interest in brewing began at Michigan Tech. Additionally, PR Newswire and 38 national outlets recognized William Corbin '82 (B.S. Mechanical Engineering) for his contributions to semiconductor technology, while Foundry Planet and Calderys highlighted Michelle Fields '95 (B.S. Metallurgical Engineering) as a 2026 STEP Ahead Award honoree.
Reach: National + Industry + Athletics

Business & Entrepreneurship

Crain's Detroit Business, the Daily Mining Gazette, and other outlets mentioned Michigan Tech in coverage of York Space Systems' acquisition of Orbion Space Technology, an MTU spinout specializing in satellite propulsion systems. Coverage highlighted the company's growth and its role in advancing space industry innovation.
Reach: National + Industry

Campus Updates

The Daily Mining Gazette and Keweenaw Report reported on institutional developments at Michigan Tech, including the establishment of a new Department of Data Science within the College of Computing, the launch of the public phase of the University's $350 million capital campaign, and the appointment of Sri Beldona as dean of the College of Business.

Reach: Local + Regional

Earned media coverage strengthens Michigan Tech's national reputation and supports strategic goals around research excellence, student and faculty visibility, community engagement, and alumni success. These placements help tell the story of Michigan Tech's impact in the Upper Peninsula and beyond.

E. Employee Safety Statistics

Michigan Technological University

EMPLOYEE SAFETY STATISTICS YEAR-TO-DATE

Jan - March 2025/2026

	Category	Years	Employee Classification								
			AFSCME	Faculty	Non-Exempt	POA	Professional	Student	Temporary	UAW	Total
Number of Recordable Injuries	Injury Only w/Medical - No Lost Time	2025	0	2	0	0	1	1	0	1	**5**
		2026	1	0	0	0	0	1	0	0	**2**
	Lost Time Cases	2025	0	0	0	0	1	0	1	0	**2**
		2026	1	0	0	0	1	0	0	0	**2**
	Restricted Work Cases	2025	0	0	0	0	1	3	1	0	**5**
		2026	0	0	1	0	1	0	0	1	**3**
	Occupational Safety and Health Administration (OSHA) Recordable Injuries (Total of above)	2025	**0**	**2**	**0**	**0**	**3**	**4**	**2**	**1**	**12**
		2026	**2**	**0**	**1**	**0**	**2**	**1**	**0**	**1**	**7**
Number of Days	Injury Lost Time [3]	2025	0	0	0	0	4	0	10	0	**14**
		2026	28	0	0	0	11	0	0	0	**39**
	Restricted Work Days [3]	2025	0	0	0	0	38	17	15	0	**70**
		2026	0	0	10	0	78	0	0	65	**153**
Hours Worked	Total Work Hours	2025	63,082	221,059	17,841	4,533	288,799	223,347	16,421	32,152	**867,234**
		2026	64,553	227,608	17,408	4,222	290,657	209,405	25,153	32,612	**871,618**
	Percentage of Work Hours	2025	**7.3%**	**25.5%**	**2.1%**	**0.5%**	**33.3%**	**25.8%**	**1.9%**	**3.7%**	**100.0%**
		2026	**7.4%**	**26.1%**	**2.0%**	**0.5%**	**33.3%**	**24.0%**	**2.9%**	**3.7%**	**100.0%**
Rates	Lost Time Case Rate [1]	2025	**0.0**	**0.0**	**0.0**	**0.0**	**0.7**	**0.0**	**12.2**	**0.0**	**0.5**
		2026	**3.1**	**0.0**	**0.0**	**0.0**	**0.7**	**0.0**	**0.0**	**0.0**	**0.5**
	Frequency Rate [2] (Recordable)	2025	**0.0**	**1.8**	**0.0**	**0.0**	**2.1**	**3.6**	**24.4**	**6.2**	**2.8**
		2026	**6.2**	**0.0**	**11.5**	**0.0**	**1.4**	**1.0**	**0.0**	**6.1**	**1.6**

OSHA has established specific calculations that enable the University to report the Recordable Injuries, Lost Time Case Rates and Frequency Rates. The Standard Base Rate (SBR) calculation is based on a rate of 200,000 labor hours which equates to 100 employees who work 40 hours per week for 50 weeks per year. Using the SBR allows the University to calculate their rate(s) per 100 employees.

1 The Lost Time Case Rate is calculated by multiplying the number of Lost Time Cases by 200,000 then dividing by the labor hours at the University.

2 The Frequency Rate is calculated by multiplying the number of recordable cases by 200,000 then dividing by the labor hours at the University.

3 The number of days are total days for the life of the cases first reported during this period.

The Bureau of Labor Statics 2024 Injury, Illness, and Fatalities, Table 1 reports for Colleges, Universities, and Professional Schools
the average LOST TIME CASE RATE of days away from work was 0.4 and the average FREQUENCY RATE was 1.3.

F. 00143**Disposal of Surplus Property**

Michigan Technological University
Surplus Property Sales
January 1, 2026 - March 31, 2026

Date	Description	Amount
01/15/26	Surplus Athletic Gear[1]	$ 4,200.00
02/02/26	Pipetting Robot, Opentrons, OT-2[1]	5,000.00
02/02/26	Gas Chromatograph, SRI Instruments, 8610C[1]	5,000.00
02/02/26	Vacufuge Concentrator, Eppendorf, 5301[1]	3,500.00
02/02/26	Centrifuge, Eppendorf, 5430[1]	2,000.00
02/02/26	Nitrogen Evaporator, Organomation, N-EVAP[1]	1,000.00
02/27/26	1997 Ford Cutaway Van[2]	300.00
Total		**$ 21,000.00**

Reasons for Disposal:

1 - Surplus items with no further use internally.

2 - Item required repair and maintenance that was no longer cost-effective and was therefore sold at scrap value.

G. Summary of Scholarships, Awards, and Grants (Board Policy 9.3)

Board of Trustees Summary of Scholarships, Awards, and Grants

2025-26 Fall and Spring

	*TOTAL 2025-2026 Fall/Spring	
	# Students PAID	$ Total PAID
INSTITUTIONAL		
GRANT[1]	1898	$ 13,216,120.13
LOAN[2]	18	$ 40,940.00
SCHOLARSHIP[3]	5386	$ 56,963,667.35
**OTHER	193	$ 2,216,965.97
TOTAL INST	**$72,437,693.45**	
SPONSORED		
SCHOLARSHIP	1687	$ 7,166,020.60
TOTAL SPONSORED	**$7,166,020.60**	
FEDERAL		
GRANT	1470	$ 7,562,415.00
LOAN	2378	$ 23,580,403.00
WORK-STUDY[4]	164	$ 351,950.90
TOTAL FEDERAL	**$31,494,768.90**	
STATE		
GRANT	1885	$ 13,208,219.36
SCHOLARSHIP	9	$ 25,463.00
TOTAL STATE	**$13,233,682.36**	
EXTERNAL		
LOAN	993	$ 17,835,423.30
SCHOLARSHIP	1514	$ 3,194,347.70
TOTAL EXTERNAL	**$21,029,771**	
TOTAL AID	**$145,361,936.31**	

*Numbers include aid paid for fall 2025 and spring 2026. Summer semester awarding is still in progress and ongoing.

**Includes Tuition Reduction Incentive Program, Senior Citizen credits, and Military Family Education Award.

[1] Grants are gift aid offered based on financial need.

[2] Loans consist of borrowed funds that must be repaid.

[3] Scholarships are gift aid offered based on merit, financial need, or a combination of both.

[4] Work-Study is a program that provides funding that students can earn through part-time employment.

Fund Name	Type	# PAID for 2425 Fall/Spring	$ Amount PAID Fall/Spring
Enrollment Incentive Grant	GRNT	5	$ 92,419.00
Part-Time Enrollment Support	GRNT	7	$ 9,296.41
Michigan Indian Tuition Grant	GRNT	37	$ 707,485.60
University Student Aid Grant	GRNT	1746	$ 11,214,703.00
University Student Grant	GRNT	116	$ 493,165.50
Marie Ryding Hardship Grant	GRNT	23	$ 33,379.00
TECHAID Loan	LOAN	26	$ 57,342.00
906 Scholarship	SCHL	141	$ 121,857.00
AF Dedicated Award	SCHL	12	$ 68,138.00
Air Force Room & Board	SCHL	2	$ 14,048.00
AF Service Award	SCHL	23	$ 88,716.00
Athletic Grant-A.D. Assistant	SCHL	21	$ 81,204.00
Athletic Grant-eSports	SCHL	29	$ 125,000.00
Athletic Grant-Football	SCHL	125	$ 1,426,062.66
Athletic Grant-Hockey	SCHL	33	$ 1,045,886.16
Athletic Grant-M Basketball	SCHL	20	$ 494,518.71
Athletic Grant-Men CC & TF	SCHL	29	$ 179,128.63
Athletic Grant-M Nordic Ski	SCHL	10	$ 120,022.00
Athletic Grant-M Tennis	SCHL	8	$ 151,750.00
Athletic Grant-Volleyball	SCHL	20	$ 430,093.32
Athletic Grant-W Basketball	SCHL	14	$ 357,968.06
Athletic Grant-Women CC & TF	SCHL	25	$ 161,276.48
Athletic Grant-W Nordic Ski	SCHL	13	$ 117,912.00
Athletic Grant-W Soccer	SCHL	29	$ 380,915.55
Athletic Grant-W Tennis	SCHL	9	$ 242,106.00
Army Room & Board	SCHL	1	$ 2,498.00
Arctic Warrior Award	SCHL	17	$ 171,804.00
Blizzard Scholarship	SCHL	6	$ 6,999.97
COB Dean's Award	SCHL	68	$ 745,000.00
COB Dean's Award	SCHL	9	$ 18,000.00
VPA Talent Award	SCHL	47	$ 43,500.00
Distinguished Leader Award	SCHL	411	$ 402,000.00
Detroit Promise Scholarship	SCHL	1	$ 1,771.00
FIRST Scholarship MI Tech	SCHL	29	$ 109,250.00
GC Corporate GR Fellowship	SCHL	65	$ 237,416.00
GC Corporate UG Scholarship	SCHL	1	$ 6,500.00
Grad Sch Academic Excellence Award	SCHL	31	$ 73,000.00
Husky Innovation Leaders Award	SCHL	63	$ 87,229.00
Husky Investment Tournament	SCHL	21	$ 19,500.00
International Ambassador Scholarship	SCHL	45	$ 526,600.00
Impact Scholarship - COB	SCHL	31	$ 121,310.00

Fund Name	Type	# PAID for 2425 Fall/Spring	$ Amount PAID Fall/Spring
LEAP Technologies	SCHL	8	$ 34,000.00
Leading Scholar Commended	SCHL	439	$ 864,000.00
Leading Scholar Distinguished	SCHL	364	$ 1,624,500.00
MI MTU Alumni Legacy Award	SCHL	659	$ 396,667.00
MTU Partner Pathway Award	SCHL	30	$ 29,459.00
Michigan Tech Transfer Achievement	SCHL	103	$ 179,333.00
Michigan Tech Transfer Distinction	SCHL	202	$ 737,000.00
National Business Scholars	SCHL	32	$ 587,500.00
National Business Scholars	SCHL	5	$ 10,000.00
National Copper Scholars	SCHL	106	$ 1,014,000.00
National Gold Scholars	SCHL	213	$ 2,828,668.00
National Platinum Scholars	SCHL	468	$ 7,445,813.00
National Silver Scholars	SCHL	116	$ 1,391,563.00
National Distinction Scholarship	SCHL	1	$ 8,334.00
National Leading Scholar	SCHL	37	$ 622,917.00
National Achievement Transfer	SCHL	15	$ 64,000.00
National Distinction Transfer	SCHL	15	$ 130,000.00
Presidential Copper Scholars	SCHL	248	$ 236,834.00
Presidential Gold Scholars	SCHL	831	$ 2,365,688.00
Presidential Platinum Scholars	SCHL	1289	$ 6,854,490.00
Presidential Silver Scholarship	SCHL	592	$ 1,120,543.00
Presidential Achievement Scholarship	SCHL	1	$ 1,500.00
Presidential Distinction Scholarship	SCHL	2	$ 3,750.00
Presidential Leading Scholar	SCHL	110	$ 1,038,334.00
University Room Scholarship	SCHL	8	$ 54,522.00
MTU Leading Scholars Award	SCHL	58	$ 2,080,492.00
Summer Youth Scholars Award	SCHL	42	$ 98,000.00
Create Your Success Scholarship	SCHL	293	$ 1,441,500.00
Supplemental University Student Award	SCHL	11	$ 28,475.00
Michigan Tech Excellence Award	SCHL	3144	$ 11,069,099.00
College Partner Pathway Award	SCHL	13	$ 322,436.00
Tuition Reduction Incentive Program		161	$ 1,784,772.68
Military Family Endcation Award		8	$ 144,902.00
Senior Citizen Benefit		24	$ 92,797.50