

Formal Session of the Board of Trustees October 6, 2023 9:00 a.m. – 11:00 a.m. Location: MUB Ballroom B Public Meeting

- I Call to Order Jeffrey Littmann, Chair
- II. Roll Call Sarah Schulte, Secretary
- III. Confirm Agenda Jeffrey Littmann, Chair

#### **IV.** Opening Remarks

- A. Opening Remarks of the Board Chair Jeffrey Littmann, 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 Andrea Dickson, Committee Chair
- C. Leadership Committee Jon Jipping, Committee Chair

#### VII. Consent Agenda

- A. Approval of Minutes
- **B.** Degrees in Course
- C. Resignations, Retirements, and Off Payroll
- D. 2024 Meeting Dates

#### VIII. Action and Discussion Items

- A. Emeritus Rank Andrew Storer, Provost and Senior Vice President for Academic Affairs
- **B. Proposal for a Bachelor of Science Degree in Environmental Data Science** Andrew Storer, Provost and Senior Vice President for Academic Affairs
- C. Resolution to Accept the FY23 Audited Financial Statements Nick Stevens, Treasurer Brian Greko, Partner Plante Moran
- **D.** Five Year State Capital Outlay Plan and Request Nick Stevens, Treasurer

#### IX. Reports

- A. Faculty Presentation Yoke Khin Yap, University Professor, Professor of Physics
- **B.** Enrollment Report John Lehman, Vice President for University Relations and Enrollment
- C. Undergraduate Student Government Mason Krause, President
- **D. Graduate Student Government** Karlee Westrem, President
- E. University Senate Robert Hutchinson, President

#### X. Informational Items

- A. Analysis of Investments
- B. Research & Sponsored Programs
- C. Advancement & Alumni Relations
- D. Media Coverage
- E. Employee Safety Statistics
- F. Disposal of Surplus property

### XI. Other Business

### XII. Date for Next Formal Meeting: December 15, 2023

### XIII. Adjourn

- VII. Consent Agenda
  - A. Approval of Minutes
  - **B.** Degrees in Course



Registrar's Office

#### MEMORANDUM

To: Dr Richard J Koubek Office of the President

From: Theresa Jacques Registrar's Office

Date: September 15, 2023

Subject: Candidates for Degree - Conferral Term 202305

The attached list of candidates for degrees, beginning with Eva Frances Hautamaki and ending with Jacob Thomas Kuntzleman is submitted for the granting of the appropriate degrees by the Board of Trustees. I certify that these candidates meet all requirements for their respective degrees and that the names have been submitted to and have received the approval of the faculty from their major department.

Wese Garanes

Theresa Jacques Registrar

TJ/kg

130 Administration Building | 1400 Townsend Drive, Houghton, Michigan 49931-1295 906-487-2319 | f. 906-487-3343 | registrar@mtu.edu | **mtu.edu/registrar** 

# Michigan Technological University Degrees Awarded for Conferral Term 202305

Michigan Technological University Registrar's Office September 15, 2023

Associate of Arts in Humanities

• Eva Frances Hautamaki

Bachelor of Arts in Theatre and Electronic Media Performance

• Joseph Anthony Pickens

Bachelor of Science in Anthropology

• Adi Chloe Hanany

Bachelor of Science in Applied Ecology and Environmental Sciences

- Jared Roy Johnson
- Johnny I Brock Cum Laude

Bachelor of Science in Audio Production and Technology

• Alexander Knapp

Bachelor of Science in Biochemistry and Molecular Biology

• Vincent Gregory Pellizzon

Bachelor of Science in Biological Sciences

• Rita Smith Chapel

Bachelor of Science in Biomedical Engineering

Kristin Breanna King

Bachelor of Science in Chemical Engineering

• Andrew Bink Dykema

Bachelor of Science in Civil Engineering

- Edward Joseph Rybowiak
- Grant William Pietila
- Justin Micillo
- Nigel J Soler
- Rayanne Thorogood Williams
- Robon Dontae Edwards

Bachelor of Science in Computer Engineering

- Ethan Layne Campbell
- Jayson Thomas Lyons
- Trent Remy Johnson

Bachelor of Science in Computer Science

• Devin James Hall

- John Philip Claassen
- Mary Elizabeth Galbraith Magna Cum Laude
- Robert John Galbraith Cum Laude

Bachelor of Science in Cybersecurity

• Mason Michael Servant - Cum Laude

Bachelor of Science in Ecology and Evolutionary Biology

- Garrett Nicholas Lukosavich
- Jacob Lee Bancroft

#### Bachelor of Science in Electrical Engineering

- Joshua John Myers
- Maxwell Patrick Baker
- Patrick James Westerberg

#### Bachelor of Science in Environmental Engineering

- Amanda Jane Reed
- Kathryn Sue Peterson
- Kelsie Janae Kaufman

#### Bachelor of Science in Finance

- Brett Alexander Thorne Magna Cum Laude
- Chelsea Archambeau
- Christopher A Lipe
- Jake Crespi
- Parker Andrew Saretsky
- Sara Renee Dax Cum Laude

Bachelor of Science in Geological Engineering

- Jacquelyn Anne Griffin
- Maxwell Abe Stange Summa Cum Laude

Bachelor of Science in Marketing

• Nicholas Edward Nardella

Bachelor of Science in Mechanical Engineering

- Adam Patrick Moucha
- Blake Douglas Pietila
- Evan Gordon Larson
- Jacob Cagadas Oxyer
- Kevin G Li
- Kyle Shawn Davis Magna Cum Laude
- Logan Pietila
- Mark Phillip Sergio Cum Laude

- Misong Byun
- Nicklas A Palatka Magna Cum Laude
- Paul Raymond Raisanen Cum Laude
- Tej Grewal Bergin
- Tyler A Pietila

Bachelor of Science in Mechanical Engineering Technology

Conor William Warwick - Cum Laude

Bachelor of Science in Natural Resources Management

• Anna Ranee Brubaker

Bachelor of Science in Psychology

- Alyssa Faith Everett \*
- Chiara Maria Concetta Heinz Summa Cum Laude
- Sara Eveyln Gelon \*

Bachelor of Science in Robotics Engineering

- Emma Marie Korhonen Magna Cum Laude
- Erin Gloria Wiser

Bachelor of Science in Scientific and Technical Communication

• Megan Elizabeth Cole

Bachelor of Science in Sports and Fitness Management

• Matthew Benjamin Ojala

Bachelor of Science in Sustainability Science and Society

- Ava Rose Miller
- Jacob Glen Freeman

Bachelor of Science in Theatre and Entertainment Technology

• Alissa Anne Desgrange

Bachelor of Science in Wildlife Ecology and Conservation

- Ezekiel Ray Stark
- Mitchell Thomas Chosa

Doctor of Philosophy in Applied Cognitive Science and Human Factors

- Alexandra Watral
- Isaac Ray Flint

Doctor of Philosophy in Chemical Engineering

- Meenaa Chandrasekar
- Sarvada Hemant Chipkar

Doctor of Philosophy in Chemistry

- D M R Thusitha Dinusha Kumarihami Divisekara
- Priyanka Dipak Kadav

Doctor of Philosophy in Electrical Engineering

Evan Gordon Lucas

Doctor of Philosophy in Engineering - Computational Science and Engineering

- Jordan Jeffrey Ewing
- Zhuo He

Doctor of Philosophy in Engineering - Environmental Engineering

• Rose Cecilia Daily

Doctor of Philosophy in Forest Science

- Claudia Irmgard Bartlick-Georg
- Joanna Dee Walitalo
- Samuel Mensah Opoku

Doctor of Philosophy in Geology

• Beth Bartel

#### Doctor of Philosophy in Mathematical Sciences

• Yasasya Uthpalawarna Ariyadasa Batugedara Batugedara Mohottalalage

#### Doctor of Philosophy in Mechanical Engineering - Engineering Mechanics

- Mahsa Asgarisabet
- Prashik Sunil Gaikwad
- Shiying Cai

Doctor of Philosophy in Physics

• Dezhi Huang

Doctor of Philosophy in Rhetoric, Theory and Culture

- April Elizabeth Lindala
- Laura Vidal Chiesa

Doctor of Philosophy in Statistics

- Meida Wang
- Xiaoqing Gao

Master of Business Administr. in Business Administration

- Allison Reed
- Cora Kaitlyn Essenmacher
- David Alexander Jankowski

Master of Engineering Mgmt in Engineering Management

• Dnyaneshwar Milind Kulkarni

Master of Science in Accounting

- Adewale Joshua Enisan
- Alicia Marie Shatrau
- Evan Sorensen

Master of Science in Applied Cognitive Science and Human Factors

- Nishat Binte Alam
- Master of Science in Applied Ecology
  - Jasmine Fairbanks Terry-Shindelman
  - Nathan Michael Coleman

Master of Science in Applied Statistics

- Braden James Barglind
- Mandy Lauren Ostrom
- Rhianna Setsma

#### Master of Science in Biological Sciences

- Alyssa Ann Abbas
- Fnu Arunima

#### Master of Science in Chemical Engineering

- Fatemeh Hamidzadeh
- Zachary Arthur Olson

#### Master of Science in Civil Engineering

- Devon Joseph Switser
- Joseph Benjamin Primeau
- Steffanie Ann Pepin

#### Master of Science in Computer Science

- Evgenii Sidorov
- Sai Teja Mummadi
- Shubham Shashikant Ayachit

#### Master of Science in Data Science

- Charlotte Clare Hildebrandt
- Ravi Teja Inala

Master of Science in Electrical and Computer Engineering

- Noah W Zins
- Shruti Rajiv Vaidya
- Subhradeep Gupta
- Varundeep Merugu

#### Master of Science in Environmental Engineering

- Enid M Partika
- FNU Azmat Naseem
- Michelle Shirley Bollini

#### Master of Science in Environmental and Energy Policy

• Zachary B Hough Solomon

#### • Zoe Lynn Ketola

#### Master of Science in Forest Ecology and Management

- Daniel Beyer
- Emma Shedd
- Shelby Nicole Lane-Clark

#### Master of Science in Forest Molecular Genetics and Biotechnology

• Emma Victoria Burke

#### Master of Science in Geological Engineering

• Ian M Gannon

#### Master of Science in Geology

- Elana Gabrielle Barth
- Natalea Jane Zhi Cohen
- Nolan Gamet

#### Master of Science in Geophysics

• Caleb J Kaminski

#### Master of Science in Kinesiology

• Isaac Lennox

#### Master of Science in Materials Science and Engineering

- Eli Anthony Harma
- Isabella Marcella Wakeham

#### Master of Science in Mechanical Engineering

- Daniel Jeffery Lesko
- Eric Michael Evans
- Hayden Charles Huttula
- Joshua Michael Kalkman
- Karynn Amirra Mikesell
- Kriti Mair
- Parag Nafde
- Piyush Sharma
- Rajasimha Reddy Bommineni
- Robert Theodore Malstrom
- Ruturaj Sunil Surve
- Sai Suhruth Teja Kaja
- Shreyas Parag Vaidya
- Soumith Reddy Boppidi
- Vignesh Nataraj
- Vinod Nalli

- Vishesh Subodh Kumar
- Yash Manik Chavan

#### Master of Science in Mechatronics

- Gurveetsingh Japalsingh Ajmani
- Pavani Gogulapati
- Smita Balasaheb Sutar

#### Master of Science in Physics

• Jacob Thomas Kuntzleman

# \* Addendum to Conferral

• Degree Awarded 202301

# C. Resignations, Retirements, and Off Payroll

#### **BOARD OF TRUSTEES OFF-PAYROLL REPORT**

(July 1, 2023 – September 16, 2023)

RETIRED					
Name	Class	Department	Title	Most Recent Hire Date	Term Date
Pattie Luokkanen	PF	Van Pelt & Opie Library	Assistant Director	10/01/1990	09/15/2023
Peter Moran	FF	Materials Science & Engineering	Professor	08/19/2001	09/02/2023

OFF-PAYROLL					
Name	Class	Department	Title	Most Recent Hire Date	Term Date
Bonnie Graham	AF	Wadsworth Hall Food Service	Food Service Helper	08/27/2018	07/12/2023
Michael Serio	PF	Information Technology Operations	Windows System Administrator	12/12/2022	07/05/2023
Ashley Curie	PF	Center for Diversity & Inclusion	Multicultural Student Success Coordinator	02/07/2022	07/07/2023
Jessica Hill	AF	Facilities Management	Custodian	12/12/2022	07/14/2023
Michael Miller	AF	Facilities Management	Custodian	01/10/2022	07/14/2023
Ahammad Basha Dudekula	PF	Advanced Power Systems Research Center	Research Engineer	07/12/2021	07/14/2023
Charles Snelson	PF	General Athletics	Director of Athletic Communication	09/21/2020	07/14/2023
Ben Wiegand	PF	Mechanical Engineering-Engineering Mechanics	Research Engineer	11/28/2021	07/14/2023
Trevor Mills	PF	Wadsworth Hall Food Service	Dining Services Manager	11/28/2022	07/14/2023
Clarence Hardwick	AP	Residential Dining	Food Service Helper	05/07/2010	07/17/2023
Nathaniel Gonzalez	PF	Chief Information Officer	Chief Information Security Officer	06/19/2023	07/23/2023
Patrick Mikesch	PF	Office of Advancement	Director of Charitable Giving	12/12/2022	07/22/2023
Bryce Tuttle	PF	Information Technology Operations	System Administrator	10/29/2012	07/27/2023
Ye Duan	FD	Computer Science	Department Chair	08/01/2022	07/31/2023
Zhen Liu	FF	Civil, Environmental & Geospatial Engineering	Associate Professor	08/19/2013	07/31/2023
Ali Zolghadr	RF	Chemical Engineering	Research Assistant Professor	01/01/2021	07/31/2023
Thomas Oommen	FF	Geological & Mining Engineering & Sciences	Professor	08/08/2010	08/20/2023
Kai Zhou	RF	Mechanical Engineering-Engineering Mechanics	Research Assistant Professor	12/28/2020	07/31/2023
Dany Jacob	FC	Humanities	Associate Teaching Professor	08/26/2016	08/04/2023
Carlos Amador	FF	Humanities	Associate Professor	08/18/2014	08/04/2023
Lisa Watrous	FR	Humanities	Assistant Teaching Professor	08/15/2022	08/04/2023
Joseph Geisz	PF	Great Lakes Research Center	Research Engineer	09/06/2022	08/04/2023
Anthony Botto	PF	Wadsworth Hall Food Service	Assistant Manager	09/24/2018	08/06/2023
Thomas Adolphs	FR	Humanities	Assistant Teaching Professor	08/09/2021	08/11/2023
Zequn Wang	FF	Mechanical Engineering-Engineering Mechanics	Assistant Professor	08/15/2016	08/06/2023
Roger Guillory	FF	Biomedical Engineering	Assistant Professor	09/30/2019	08/07/2023
Karalee Defoe	AF	Wadsworth Hall Food Service	Food Service Helper	09/06/2022	08/09/2023
Katie Knapp	PF	Admissions	Associate Director of Admissions Visitor Engagement	09/07/2021	08/11/2023
Patricia Leopold	PF	College of Forest Resources & Environmental Science	Climate Adaptation Specialist	10/05/2009	08/11/2023
Charlene Page	UP	Chemistry	Office Assistant	01/28/2013	08/11/2023

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Sidike Paheding	FF	Applied Computing	Assistant Professor	08/17/2020	08/12/2023
Wenbin Zhang	FF	Computer Science	Assistant Professor	08/08/2022	08/12/2023
Andrea McMahon	AF	Facilities Management	Custodian	09/16/2022	08/12/2023
Sara Gosses	FF	Visual & Performing Arts	Assistant Professor	08/09/2021	08/13/2023
Shan Zhou	FF	Social Sciences	Assistant Professor	08/20/2018	08/13/2023
Zackary Mudick	AF	Athletic/Recreation Complex Operations	Custodian	05/15/2023	08/14/2023
Ricardo Eiris Pereira	FF	Civil, Environmental & Geospatial Engineering	Assistant Professor	08/17/2020	08/15/2023
Nicole Kelly	PF	University Marketing & Communications	Creative Director	10/05/2015	08/16/2023
Charler Schaerer	NF	Chemistry	Laboratory Associate	05/20/2019	08/18/2023
Hallie Leatherman	UF	Human Resources	Administrative Aide	09/07/2021	08/18/2023
Jordan Rabitory	AF	Facilities Management	Building Mechanic	07/25/2022	08/21/2023
David Robb	AF	Wadsworth Hall Food Service	Cook	11/26/2012	08/25/2023
Wayne Gersie	EX	Office of Diversity & Inclusion	Vice President for Diversity & Inclusion	11/02/2020	08/25/2023
Hyeun Joong Yoon	FR	Biomedical Engineering	Assistant Teaching Professor	08/17/2020	08/25/2023
Anthony Harris	PF	Athletic/Recreation Complex Operations	Event Operations Manager/Athletic Equipment Manager	03/07/2022	08/25/2023
Amanda Hagerl	PF	Alumni Engagement	Assistant Director of Alumni Engagement	08/09/2021	08/28/2023
Shannon Rinkinen	PF	College of Business	Director of Marketing & Outreach	05/11/2015	09/01/2023
Robert Stromer	AF	Wadsworth Hall Food Service	Food Service Helper	11/28/2022	09/02/2023
Elizabeth Fujita	PF	Office of Advancement	Director for Foundation Relations	07/25/2022	09/08/2023
Kelly Vizanko	PF	Registrar's Office	Associate Registrar for 09/19/201 Technology		09/08/2023
Mackenzie Mentel	NF	Provost & Senior Vice President for Academic Affairs	ADVANCE & Faculty 04/17/2023 Development Program Coordinator		09/09/2023
Andrew Gross	PF	Electrical & Computer Engineering	Managing Director of Microfabrication Facility	07/12/2021	09/16/2023

#### D. 2024 Meeting Dates

#### VII-D. PROPOSED 2024 MEETING DATES

At the August meeting of the Board of Trustees dates are generally set for next year's meetings. In order for members to check their calendars, the tentative dates are presented. If there is a conflict with any of these dates, members are asked to please notify the Board Secretary.

#### Retreat

Wednesday, February 21, 2024 (half day) Thursday, February 22, 2024 **Formal Session** Friday, February 23, 2024 Friday, April 26, 2024 Thursday, August 1, 2024 Friday, October 11, 2024 Friday, December 13, 2024

#### VIII. Action and Discussion Items

#### A. Emeritus Rank

#### VIII-A. 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 emeritus appointment for Dr. Peter D. Moran, Department of Materials Science & Engineering.



#### **OFFICE MEMO**

- **TO:** Michigan Technological University Board of Trustees
- **FROM**: Audra Morse, Interim Dean of the College of Engineering
- **DATE:** August 25, 2023
- SUBJECT: Recommendation for Emeritus Status

The faculty of the Materials Science and Engineering voted in August, 2023, to request that the Michigan Technological University Board of Trustees name Peter D. Moran as Professor Emeritus upon his retirement on September 2, 2023.

Pete served Michigan Tech with great distinction for 22 years. He started at Michigan Tech as an Assistant Professor in 2001, and was promoted to Associate Professor in 2006 and Professor in 2015. He has authored over 70 refereed publications, and was the driving force to bring semiconducting materials into The Department's teaching and research portfolios. He was an enthusiastic and dedicated colleague and teacher, and was a real asset to Michigan Tech.

#### Approved

Walter W. Milligan Digitally signed by Walter W. Milligan Date: 2023.08.25 09:25:56 -04'00'	08/25/2023		
Department Chair/School Dean	Date		
College Dean	Date		
Provost and Senior Vice President for Academic Affairs	Date		
President	Date		

#### **B.** Proposal for a Bachelor of Science Degree in Environmental Data Science

# VIII-B. PROPOSAL FOR A BACHELOR OF SCIENCE DEGREE IN ENVIRONMENTAL DATA SCIENCE

The faculty in the College of Forest Resources and Environmental Science seek to establish a Bachelor of Science (BS) degree in Environmental Data Science. The proposal has included input from other academic units across campus that will contribute courses to the program.

The BS in Environmental Data Science will provide students with a broad understanding of environmental data science and prepare them for careers in this fast-growing field. Students will be trained to understand the fundamentals of ecological science and will learn computational and analytical tools to enable them to manage and visualize data to apply to inform decisions about environmental issues. This program will be distinctive in its science-based curriculum in that it integrates an understanding of environmental and ecological data with new analytical and visualization approaches and tools to summarize and draw inference from data. This degree program is designed to produce the next generation of environmental data scientists to work in the private sector, for government agencies, and to promote entrepreneurship in addressing environmental issues.

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 in Environmental Data Science.

#### C. Resolution to Accept the FY23 Audited Financial Statements

#### **FY2023 AUDITED FINANCIAL STATEMENTS**

Plante & Moran, PLLC has provided audit services and presented their opinion regarding the 2023 Financial Report for Michigan Technological University. After review, the Board of Trustees resolves the following:

**RECOMMENDATION:** That the Board of Trustees accepts the FY2023 audited financial statements, contained in the 2023 Financial Report, for the year ended June 30, 2023 as presented.

#### D. Five Year State Capital Outlay Plan and Request

#### FY25 FIVE-YEAR STATE CAPITAL OUTLAY PLAN AND REQUEST

The FY25 Five-Year State Capital Outlay Plan and Request is required to be submitted to the State of Michigan this fall with Board of Trustees approval, and is included herein.

RECOMMENDATION: That the Board of Trustees approves the FY25 Five-Year State Capital Outlay Plan and FY25 Capital Project Request to be submitted to the State of Michigan.

# 2023 FINANCIAL REPORT







#### TABLE OF CONTENTS The Michigan Tech Strategic Plan 2 Letter from the President 3 Administrative Officers 4 5 **University Update Report of Independent Auditors** 6 9 **Management's Discussion and Analysis** 21 Statements of Net Position 22 Statements of Revenues, Expenses, and Changes in Net Position 23 **Statements of Cash Flows** 25 Notes to the Financial Statements 61 **Required Supplementary Information** 65 Supplementary Information

# THE MICHIGAN TECH STRATEGIC PLAN

### VISION

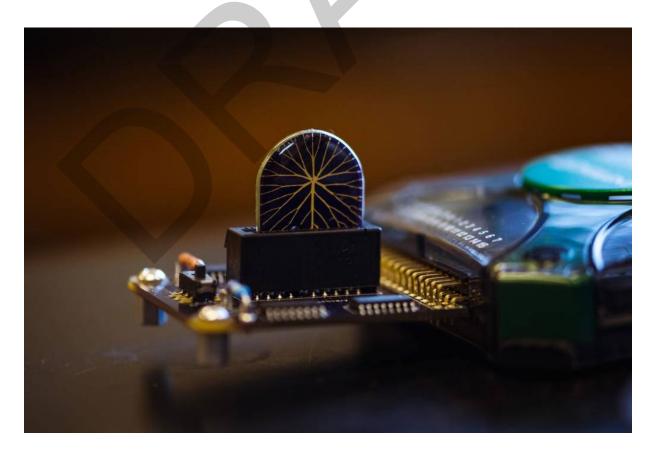
Michigan Tech is a globally recognized technological university that educates students, advances knowledge, and innovates to improve the quality of life and to promote mutual respect and equity for all people within the state, the nation, and the global community.

# MISSION

Create solutions for society's challenges by delivering action-based undergraduate and graduate education, discovering new knowledge through research, and launching new technologies through innovation.

### GOALS

- 1. Education: Provide a distinctive and rigorous action-based learning experience grounded in science, engineering, technology, business, sustainability, and an understanding of the social and cultural contexts of our contemporary world.
- 2. Scholarship: Enhance research, scholarship, entrepreneurship, innovation, and creative activities that promote sustainable economic prosperity, health and safety, ethical conduct, and responsible use of resources.
- 3. People: Foster and support an exceptional and diverse community of students, faculty, and staff.





# LETTER FROM THE PRESIDENT

"Driving Force," the cover story of the latest Michigan Tech Magazine, sums up what we do best. Specifically established to drive industry forward, Michigan Tech has earned a place amongst Michigan's top universities in regards to research, innovation, and workforce development.

And, there are no signs of a slowdown.

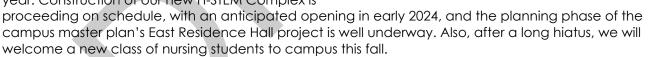
Our incoming class of first-year students in fall 2022 was the second-largest in school history and is the most academically proficient on record as measured by high school GPA and SAT.

Our research expenditures are outpacing fiscal year 2022's all-time historic high.

And, last year, the Michigan Tech Fund recorded one of the largest fundraising totals in MTU's history.

Looking ahead, we are pleased to report that Michigan Tech's financial forecast remains healthy. The fiscal year 2024 budget includes continuing our faculty hiring initiative, increasing our deferred maintenance budget, instituting selected unit budget enhancements, and implementing salary increases.

Enrollment is well positioned for the coming academic year. Construction of our new H-STEM Complex is



Finally, we are on the cusp of launching a capital campaign to strengthen Michigan Tech's unique and extraordinary educational experience.

We've had an exceptional year because of the exceptionally talented faculty and staff at Michigan Tech. Their talents are best reflected in the success of our students. With a career placement rate above 90 percent for the past four years, Michigan Tech's alumni are the driving force helping to shape our future—all thanks to your efforts.

Sincerely,

Rick Koubek President



# ADMINISTRATIVE OFFICERS

# **BOARD OF TRUSTEES**

TERMS ENDING DECEMBER 31 OF YEAR SHOWN

- 2024 Derhun Sanders
- 2026 John Bacon
- 2028 Andrea Dickson
- 2030 Matthew Johnson

Steven Tomaszewski, Vice Chair Jeffrey Littmann, Chair Jon Jipping Monique Wells

# EXECUTIVE AND BOARD OFFICERS

Richard Koubek President

Andrew Storer Provost and Senior Vice President for Academic Affairs

Nick Stevens Chief Financial Officer and Senior Vice President for Administration

Wayne Gersie Vice President for Diversity and Inclusion

Laura Bulleit Interim Dean of Students David Reed Vice President for Research

William Roberts Vice President for Advancement and Alumni Engagement

John Lehman Vice President for University Relations and Enrollment

Sarah Schulte Secretary of the Board of Trustees

Julie Seppala Treasurer of the Board of Trustees

Suzanne Sanregret Vice President for Athletics and Recreation





# UNIVERSITY UPDATE

Michigan Technological University will enter the 2023-24 academic year with one of the strongest longterm enrollment records seen among Michigan's public universities and many exciting projects underway, including ongoing construction of our H-STEM Engineering and Health Technologies Complex and the groundbreaking for our new residence hall. Both buildings are part of the University's new campus master plan, approved by Michigan Tech's Board of Trustees in October 2022.

Following last year's record-breaking enrollment, Michigan Tech welcomed 7,073 students to campus for fall 2022, including 1,388 incoming first-year students. Last year's class of new first-year students and this year's class represent the two largest since 1984. The average GPA of 3.83 for this year's incoming class is a new University record. Overall enrollment grew 1 percent.

University President Rick Koubek noted at the start of the academic year that Tech is on track to hit its 2035 goals of 10,000 students, \$200 million in research expenditures, a 40 percent increase in faculty, a \$300 million endowment, and refreshed campus infrastructure. To meet those goals, four key initiatives launched during the 2022-23 academic year:

- A national student recruitment campaign
- A faculty/staff hiring initiative
- Initiation of a capital campaign
- Execution of the campus master plan

Additionally, in May 2023, the Michigan Tech Board of Trustees voted to approve a Bachelor of Science in Nursing program. MTU will rehome nearby Finlandia University's nursing program and build on its strong foundation to serve as a major asset for both the community and the region. The program will begin admitting new students after approval processes are complete.



#### Independent Auditor's Report

To the Board of Trustees Michigan Tech University

#### **Report on the Audit of the Financial Statements**

#### Opinion

We have audited the financial statements of Michigan Tech University (the "University") a component unit of the State of Michigan, as of and for the years ended June 30, 2023 and 2022 and the related notes to the financial statements, which collectively comprise the University's basic financial statements, as listed in the table of contents.

In our opinion, the accompanying financial statements referred to above present fairly, in all material respects, the financial position of the University as of June 30, 2023 and 2022 and the changes in its financial position and its cash flows thereof for the years then ended in accordance with accounting principles generally accepted in the United States of America.

#### **Basis for Opinion**

We conducted our audits in accordance with auditing standards generally accepted in the United States of America (GAAS) and the standards applicable to financial audits contained in *Government Auditing Standards*,' issued by the Comptroller General of the United States. Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of our report. We are required to be independent of the University and to meet our other ethical responsibilities in accordance with the relevant ethical requirements relating to our audits. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion. The financial statements of Michigan Tech Fund, a blended unit, were not audited under *Government Auditing Standards*.

#### **Responsibilities of Management for the Financial Statements**

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the University's ability to continue as a going concern for 12 months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

#### Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and, therefore, is not a guarantee that an audit conducted in accordance with GAAS and *Government Auditing Standards* will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS and Government Auditing Standards, we:

• Exercise professional judgment and maintain professional skepticism throughout the audit.

To the Board of Trustees Michigan Tech University

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are
  appropriate in the circumstances but not for the purpose of expressing an opinion on the effectiveness of the
  University's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the University's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

#### **Required Supplementary Information**

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis, schedule of the University's proportionate share of the net pension liability and schedule of University pension contributions, schedule of the University's proportionate share of the net OPEB liability and schedule of University OPEB contributions, and schedule of changes in the University's total OPEB liability and related information be presented to supplement the basic financial statements. Such information is the responsibility of management and, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, which considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

#### Supplementary Information

Our audits were conducted for the purpose of forming opinions on the financial statements that collectively comprise the University's basic financial statements. The schedule of net position by fund; schedule of revenues, expenses, and change in net position by fund by object; and schedule of revenues, expenses and changes in net position by fund by function are presented for the purpose of additional analysis and are not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the schedule of net position by fund; schedule of revenues, expenses and changes in net position by fund by object; and schedule of revenues, expenses and changes in net position are fairly stated in all material respects in relation to the basic financial statements as a whole.

#### **Other Information**

Management is responsible for the accompanying Michigan Tech strategic plan, the letter from the president, the listing of administrative officers, and the university update, which is presented for purposes of additional analysis and is not a required part of the basic financial statements. Our opinion on the financial statements does not cover such information, and we do not express an opinion or any form of assurance thereon.

To the Board of Trustees Michigan Tech University

#### Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated October 5, 2023 on our consideration of the University's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, grant agreements, and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the University's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the University's internal control over financial reporting and compliance.

October 5, 2023

# MANAGEMENT'S DISCUSSION AND ANALYSIS

This discussion and analysis section of the Michigan Technological University ("University") annual financial report provides an overview of its financial activities during the fiscal years ended June 30, 2023, 2022, and 2021. University management has prepared the financial statements and the related footnote disclosures along with this discussion and analysis. Responsibility for the completeness and fairness of this information rests with University management.

## USING THE ANNUAL REPORT

The University's financial report includes three financial statements: the Statements of Net Position; the Statements of Revenues, Expenses, and Changes in Net Position; and the Statements of Cash Flows. These financial statements are prepared in accordance with accounting principles generally accepted in the United States of America, which establish standards for external financial reporting for public colleges and universities and require that financial statements be presented to focus on the University as a whole. The financial statements report information about the University using accrual accounting methods similar to those used by private-sector companies. All of the current year's revenues and expenses are taken into account regardless of when cash is received or paid.

### **REPORTING ENTITY**

The Michigan Tech Fund ("Fund") is a component unit of the University and its activity has been blended into the University's financial statements.





# CONDENSED STATEMENTS OF NET POSITION

The Statements of Net Position include all assets and liabilities of the University as well as deferred outflows and inflows of resources. Over time, increases and decreases in net position is one indicator of the improvement or erosion of the University's financial health when considered with operating measures such as enrollment levels, research activities, and the physical condition of facilities.

#### CONDENSED STATEMENTS OF NET POSITION AS OF JUNE 30

	2023	2022	2021
Assets			
Current assets	\$ 56,563,855	\$ 67,354,666	\$ 58,692,682
Noncurrent assets:			
Capital assets, net	248,501,370	221,435,068	221,553,124
Other	 297,337,953	275,883,254	262,868,880
Total assets	602,403,178	564,672,988	543,114,686
Deferred outflows of resources	6,175,737	16,291,832	6,656,404
Liabilities			
Current liabilities	36,401,314	35,448,551	32,283,267
Noncurrent liabilities	163,547,411	164,085,656	174,136,637
Total liabilities	199,948,725	199,534,207	206,419,904
Deferred inflows of resources	12,405,892	34,777,926	13,324,871
Net position			
Net investment in capital assets	149,340,220	135,834,427	135,790,477
Restricted			
Nonexpendable	118,486,008	112,022,233	106,282,134
Expendable	104,030,039	108,014,222	116,071,789
Unrestricted	 24,368,031	(9,218,195)	(28,118,085)
Total net position	\$ 396,224,298	\$ 346,652,687	\$ 330,026,315

#### Changes from 2022 to 2023

Total assets of the University increased by \$37.7 million. The main drivers of the increase in assets were investments and capital assets, net. Investments increased due to decent investment returns and from the investment of a portion of the unspent bond proceeds from the 2023A and 2023B bond issuances. Capital assets, net increased due to the continued construction of the H-STEM Complex.

Total liabilities increased by \$415,000 in fiscal year 2023. Long-term debt increased during the fiscal year resulting from the 2023A and 2023B bond issuances totaling \$28.2 million to renovate campus classroom and lab space and build a high bay building used for research. Liabilities in total decreased because the net pension liability that is passed through to the University from the Michigan Public Schools Employees Retirement System (MPSERS) decreased significantly, by \$27.4 million.

Deferred outflows of resources decreased by \$10.1 million and deferred inflows increased by \$22.3 million. The notable changes to those line items were the recognition of revenue in fiscal year 2023 from \$11.0 million of special allocation of funding that was received in fiscal year 2022 from the State of Michigan for the MPSERS unfunded liability.

#### Changes from 2021 to 2022

Total assets of the University increased by \$21.5 million. The main drivers of the increase in assets were cash and accounts receivable. Cash increased due to proceeds from a bond issuance for the construction of the H-STEM Complex which broke ground in April, and from the operations of the University returning to a more normal, pre-pandemic level. The increase in accounts receivable was due to increased billings on research grants and contracts.

Total liabilities decreased by \$6.9 million in fiscal year 2022. Long-term debt did increase during the fiscal year as a result of the bond issuance for the construction of the H-STEM Complex and refunding Series 2012A bonds. The Series 2021 bonds totaled \$29.9 million and were rated A1 by Moody's. Liabilities in total decreased because both the net pension and OPEB liabilities that are passed through to the University from the Michigan Public Schools Employees Retirement System (MPSERS) decreased significantly.

Deferred outflows of resources decreased by \$9.6 million and deferred inflows increased by \$21.5 million. The notable changes to those line items were from a \$9.5 million special allocation of funding from the State of Michigan for the MPSERS unfunded liability.

Total net position increased by \$27.7 million. The majority of the increase was in the unrestricted category resulting from the reduction in the MPSERS net pension and OPEB liabilities.

#### NET POSITION

Net position represents the residual interest in the University's assets and deferred outflow of resources after liabilities and deferred inflows of resources are deducted. The composition of the University's net position is summarized as follows:

#### NET POSITION SUMMARY AS OF JUNE 30

	2023_	2022	2021
Net investment in capital assets	\$ 149,340,220	\$ 135,834,427	\$ 135,790,477
Restricted-nonexpendable net position - endowment	118,486,008	112,022,233	106,282,134
Restricted-expendable net position			
Gifts and sponsored programs	43,223,325	42,427,034	47,795,171
Capital projects and debt service	9,065,615	14,420,741	2,530,518
Student loans	5,327,123	6,905,878	8,760,339
Net appreciation on permanent endowment funds and			
land held for investment	46,413,976	44,260,569	56,985,761
Total restricted-expendable net position	104,030,039	108,014,222	116,071,789
Unrestricted net position (deficit)			
Capital projects and repairs	9,082,009	8,026,310	6,942,720
Auxiliary enterprises	1,064,037	1,793,775	1,291,901
Designated for departmental use	31,472,831	30,878,458	27,194,753
Pension and OPEB plans	(28,177,244)	(67,361,873)	(81,699,973)
Uncommitted	10,926,398	17,445,135	18,152,514
Total unrestricted net position (deficit)	24,368,031	(9,218,195)	(28,118,085)
Total net position	\$ 396,224,298	\$ 346,652,687	\$ 330,026,315



Net investment in capital assets represents the University's capital assets plus unspent bond proceeds net of accumulated depreciation and outstanding principal balances of debt attributable to the acquisition, construction, or improvement of those assets. The net change from year to year reflects the University's improvement, maintenance, and usage of its capital assets in accordance with its long-range capital plan.

Restricted nonexpendable net position represents the historical value (corpus) of gifts to the University's permanent endowment funds. Restricted expendable net position is restricted by a party independent of the University or by law. This includes restrictions related to gifts, research contracts, grants, outstanding debt, student-loan programs, and net appreciation of permanent endowment funds.

Unrestricted net position represents those balances from operational activities of the University that have not been restricted by parties independent of the University. This includes designated funds that the Board of Trustees and management have designated for specific purposes, such as public service activities or academic and research initiatives. Unrestricted net position also includes amounts that have been contractually committed for goods and services that have not been received by fiscal year-end.



# CONDENSED STATEMENTS OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION

The Statements of Revenues, Expenses, and Changes in Net Position present the revenues earned and expenses incurred during the fiscal year. Revenues are reported as either operating or nonoperating. State appropriations and gifts are classified as nonoperating revenues which will always result in operating losses for the University.

#### CONDENSED STATEMENTS OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION YEAR ENDED JUNE 30

	·		
	2023	2022	2021
Operating revenues			
Tuition and fees, net	\$ 106,273,322	\$ 102,157,014	\$ 98,248,502
Grants and contracts	69,269,326	64,011,490	55,608,186
Educational activities	5,809,854	4,892,474	4,456,771
Auxiliary and departmental activities, net	31,018,583	29,202,079	20,521,130
Total operating revenues	212,371,085	200,263,057	178,834,589
Operating expenses			
Compensation and benefits	192,430,943	162,656,867	163,681,571
Supplies and services	68,594,543	60,731,662	48,752,132
Student financial support	11,498,389	16,946,785	15,330,746
Utilities	7,081,475	6,516,613	6,263,372
Depreciation and amortization	16,457,358	14,318,065	14,464,888
Total operating expenses	296,062,708	261,169,992	248,492,709
Operating loss	(83,691,623)	(60,906,935)	(69,658,120)
Nonoperating revenues (expenses) and other revenues	;		
Federal Pell grants	4,944,840	5,031,356	5,104,880
State appropriations	96,816,078	53,337,200	50,795,200
Other nonoperating revenues and expenses, net	31,502,316	19,164,751	76,889,461
Net nonoperating revenues (expenses) and other			
revenues	133,263,234	77,533,307	132,789,541
Net increase in net position	49,571,611	16,626,372	63,131,421
Net position			
Beginning of year	346,652,687	330,026,315	266,894,894
End of year	\$ 396,224,298	\$ 346,652,687	\$ 330,026,315

#### Changes from 2022 to 2023

Overall, the University experienced a \$12.1 million increase in operating revenues. Tuition and fees, net and research grants and contracts were the drivers of the increase from higher enrollment and more research grants awarded.

Operating expenses increased by \$34.9 million. Compensation and benefits increased by \$29.7 million, with salaries and wages making up \$8.1 million of that increase and benefits making up \$21.6 million. The increase in benefits is mostly due to MPSERS actuarial changes. Supplies and services increased by \$9.8 million with more spending on research grants and contracts.

Nonoperating revenues (expenses) and other revenues increased by \$55.9 million. The large increases came from special State appropriations designated to pay down the unfunded MPSERS net pension liability, and positive investment returns. No federal coronavirus relief funds were received in fiscal year 2023.

#### Changes from 2021 to 2022

Overall, the University experienced a \$21.4 million increase to operating revenues. Tuition and fees, net increased due to an enrollment increase that featured the largest incoming first-year class in over three decades. With students back on campus for the full school year, revenues increased for the residence halls and other auxiliary enterprises. Research revenues from grants and contracts were up as well.

Operating expenses increased by \$12.7 million. That increase is skewed by an over \$14 million pension and OPEB recovery passed through to the University from the MPSERS retirement plan. Excluding the noncash MPSERS recoveries in fiscal year 2022 and 2021, operating expenses were up by almost \$20 million.



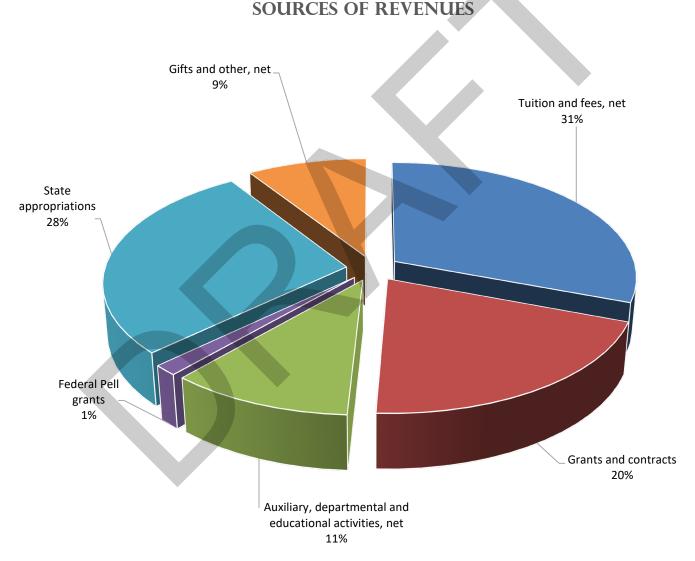
University operations returned to a more normal, pre-pandemic level during fiscal year 2022, and expenses increased accordingly to provide more campus services.

Nonoperating revenues (expenses) and other revenues decreased by \$55.3 million. The large decreases came from investment losses, decreased gifts and less revenue from Federal coronavirus relief funds.

#### **Revenue Diversification**

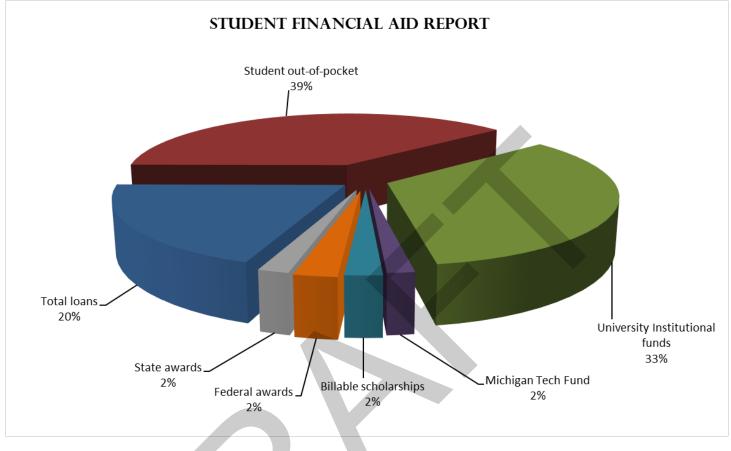
The University relies on multiple sources of revenues to supplement student tuition. The University continues to aggressively increase funding from other sources consistent with its mission.

The following graph illustrates the fiscal year 2023 revenues by source:



### TUITION AND FEES REVENUE

The University provides students with the opportunity to obtain a quality education at a price that is subsidized by state funding. For fiscal year 2023, the University implemented a 3.8% average increase in tuition and mandatory fees for Michigan resident undergraduates. Graduate students saw a 3.9% increase in tuition and mandatory fees. The following graph identifies the source of funds used to pay student tuition and fees for the fiscal year ended June 30, 2023. The graph shows that 41% of student



tuition and fees are provided by the University, donors to the University, or various grant and scholarship programs.

# GRANT AND CONTRACT REVENUE

The University receives revenues for sponsored programs from governmental and private sources, which provide for the direct and indirect costs of performing sponsored activities. The University also receives revenues from the federal government and its agencies for student grants. There were \$82.8 and \$79.1 million of research and sponsored programs awarded to the University in fiscal years 2023 and 2022, respectively. The University currently has 16 interdisciplinary research institutes and centers that have enabled the University to maintain its growing recognition as a research institution. The University also operates off-campus research facilities in Hancock, Michigan and Ann Arbor, Michigan.

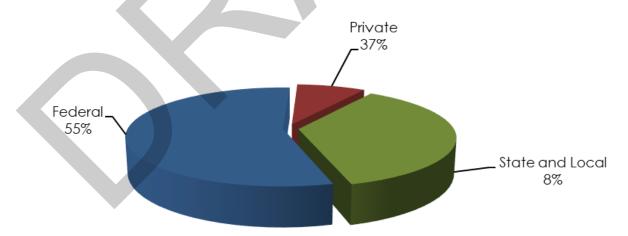




# GRANT AND CONTRACT REVENUE YEAR ENDED JUNE 30

	2023	_	2022	 2021
Federal sources:				
Department of Agriculture	\$ 2,643,317	\$	2,013,267	\$ 1,836,306
Department of Defense	9,906,909		12,375,121	12,033,433
Department of Education (net of Pell grants)	707,384		478,114	531,842
Department of Energy	3,304,589		3,453,939	2,508,254
Department of Interior	992,277		637,551	1,070,028
Department of Transportation	1,379,795		789,291	406,975
Environmental Protection Agency	139,120		132,896	162,853
National Aeronautics and Space Administration	5,418,171		4,807,182	3,927,372
National Science Foundation	10,671,183		8,567,875	6,935,289
Health and Human Services	3,379,278		2,912,673	2,266,570
Other federal sources	940,264		670,474	546,908
Repayments	 (1,261,180)		(1,583,372)	 (1,741,655)
Total federal sources	38,221,107		35,255,011	30,484,175
Non-federal sources:				
State and local	5,794,903		4,828,756	3,800,457
Private	25,253,316		23,927,723	 21,323,554
Total non-federal sources	31,048,219		28,756,479	 25,124,011
Total all sources	\$ 69,269,326	<u>\$</u>	64,011,490	\$ 55,608,186

The following graph illustrates the fiscal year 2023 grant and contract revenue by source.



# **OPERATING EXPENSES BY FUNCTION**

Functional classifications are the traditional categories that universities have used for expenses. They represent the types of programs and services that the University provides.

YEAR ENDED JUNE 30						
		2023	_	2022		2021
Instruction	\$	72,434,387	\$	63,503,367	\$	62,431,697
Research		78,635,226		67,515,569		60,016,828
Public service		12,687,152		9,935,341		11,027,767
Academic support		25,928,148		23,709,211		21,078,846
Student services		19,166,852		15,254,827		13,810,086
Institutional support		22,405,236		20,145,820		23,081,412
Operations and maintenance of plant		17,229,588		14,540,735		13,640,128
Student financial support		13,814,036		19,381,790		16,267,506
Departmental activities		8,758,759		6,193,379		4,232,924
Student residents		8,545,966		6,671,888		8,440,627
Depreciation		16,457,358		14,318,065		14,464,888
Total	\$	296,062,708	\$	261,169,992	\$	248,492,709

FUNCTIONAL EXPENSES

# Overall, expenses increased by 13% in fiscal year 2023 compared to fiscal year 2022 and increased by 5% in fiscal year 2022 compared to fiscal year 2021. Notable increases across the categories can be attributed to increased enrollment and occupancy in on-campus housing, more research grants and contracts awarded, and maintenance projects that had been on hold during the pandemic being under way.



# CONDENSED STATEMENTS OF CASH FLOWS

Another way to assess the financial health of an institution is to look at its Statement of Cash Flows. Its primary purpose is to provide relevant information about sources and uses of cash of an entity during a period. The Statements of Cash Flows also help users assess an entity's ability to generate future net cash flows, its ability to meet its obligations as they come due, and its needs for external financing. The Statements of Cash Flows present information related to cash inflows and outflows summarized by operating, noncapital financing, capital and related financing, and investing activities.



# CONDENSED STATEMENTS OF CASH FLOWS YEAR ENDED JUNE 30

2023	2022	2021
\$ (109,931,427)	\$ (59,133,307)	\$ (59,517,363)
110,818,446	78,088,967	73,776,014
(10,035,837)	1,837,583	(7,321,222)
(8,514,737)	(3,566,611)	(921,726)
(17,663,555)	17,226,632	6,015,703
52,885,466	35,658,834	29,643,131
\$ 35,221,911	\$ 52,885,466	\$ 35,658,834
	\$ (109,931,427) 110,818,446 (10,035,837) (8,514,737) (17,663,555) 52,885,466	\$ (109,931,427) 110,818,446 (10,035,837) (8,514,737) (17,663,555) 52,885,466 (109,931,427) (59,133,307) 78,088,967 (3,566,611) 17,226,632 35,658,834

# Changes from 2022 to 2023

Cash from operating activities decreased by \$50.8 million. The largest driver of the decrease was in payments for benefits, in which an additional \$33.8 million was paid to the MPSERS pension plan during fiscal year 2023. Payments to employees and payments to suppliers increased as well, which decreased cash from operating activities.

Cash from noncapital financing activities increased by \$32.7 million. State appropriations increased significantly from a special allocation of funding for the MPSERS pension plan. There was a decrease in receipts of federal coronavirus relief funds as none of those funds were received in fiscal year 2023.

Cash from capital and related financing activities decreased by \$11.9 million. More capital assets were purchased during fiscal year 2023, for the H-STEM Complex. The proceeds from issuing the 2023A and 2023B bonds were \$7.9 million less than the Series 2021 bonds issued in fiscal year 2022.

Cash from investing activities decreased by \$4.9 million due to the purchase of investments being greater than the sales of investments during fiscal year 2023. Purchases of investments increased from investing a portion of the unspent bond proceeds of the 2023A and 2023B bonds.

Overall, cash decreased by \$17.6 million with most of the decrease coming from spending on the H-STEM building complex and no receipt of federal coronavirus relief funds.

# Changes from 2021 to 2022

Cash from operating activities increased slightly. Whereas more cash was received for tuition and fees, student residence fees, departmental and education activities, and research grants and contracts, more cash was also spent on providing those services.

Cash from noncapital financing activities increased. The increase was from cash received from State appropriations.

Cash from capital and related financing activities increased significantly. During fiscal year 2022, the Series 2021 bond issuance provided cash to be used to construct the H-STEM Complex.

Cash from investing activities decreased due to the purchase of investments being greater than the sales of investments during fiscal year 2022.

Overall, cash increased by \$17.2 million with most of the increase coming from the receipt of proceeds from the issuance of the Series 2021 bonds.

# FACTORS IMPACTING FUTURE PERIODS

# Enrollment

Admission is open to all students on a competitive basis. The University's incoming first-year students consistently have average ACT scores greater than the national average. The following tables show that about 18% of accepted students enroll at the University. Michigan residents account for 69% of the University's enrollment. Enrollment has been a priority of the University and is a part of its Strategic Plan.

# ACCEPTED STUDENTS SUMMER AND FALL SEMESTERS

	2022	2021	2020	2019	2018
First-Year Students	7,394	6,895	5,260	4,442	4,313
Transfer Students	332	339	296	310	298
Graduate Students	2,753	1,433	1,525	1,655	1,566
Total	10,479	8,667	7,081	6,407	6,177

# AVERAGE ACT SCORES FOR INCOMING FIRST-YEAR STUDENTS, FALL SEMESTER

	Michigan Tech	National
2022	27.3	19.8
2021	27.7	20.3
2020	27.5	20.6
2019	27.6	20.7
2018	27.3	20.8

# SELECTED ENROLLMENT DATA\* SUMMER AND FALL SEMESTERS

	2022	2021	2020	2019	2018
First-Year Students	1,388	1,479	1,201	1,301	1,245
New Transfer Students	144	151	149	159	156
Graduate Students	389	385	242	389	396
Total	1,921	2,015	1,592	1,849	1,797

# ENROLLMENT BY RESIDENCY, FALL SEMESTER\*

	2022	2021	2020	2019	2018
Resident	4,745	4,818	4,704	4,755	4,746
Non-Resident	1,404	1,408	1,376	1,389	1,470
International	714	598	607	768	900
Total	6,863	6,824	6,687	6,912	7,116

\*Does not include Distance Learning



# FULL-TIME EQUIVALENT STUDENTS BY RESIDENCY, FALL SEMESTER\*

	2022	2021	2020	2019	2018
Resident	4,507	4,582	4,443	4,475	4,482
Non-Resident	1,347	1,344	1,307	1,324	1,401
International	697	562	559	730	858
Total	6,551	6,488	6,309	6,529	6,741

\*Does not include Distance Learning

# **Degrees Awarded**

The University awards four levels of degrees: Associate's, Bachelor's, Master's, and Doctoral/Professional. Listed below is a five-year history of degrees awarded.

		DEGREES AWARDED					
	2023	2022	2021	2020	2019		
Associate's	3	5	5	2	1		
Bachelor's	1,109	1,164	1,173	1,170	1,160		
Master's	385	353	424	357	448		
Doctoral	86	74	84	85	86		
Total	1,583	1,596	1,686	1,614	1,695		



### MICHIGAN TECHNOLOGICAL UNIVERSITY STATEMENTS OF NET POSITION

Jun 2023	ne 30 2022
2020	
\$ 25,133,658	\$ 42,336,097
28,201,559	22,328,410
1,975,457	1,452,494
1,253,181	1,237,665
56,563,855	67,354,666
3,336,525	4,677,979
17,251,715	17,615,926
	10,549,369
	-
	228,200,878
	6,806,179
	221,435,068
	4,825,977
2,669,132	3,206,946
545,839,323	497,318,322
602,403,178	564,672,988
5,062,918	14,970,540
1,112,819	1,321,292
6,175,737	16,291,832
25.457.322	26,285,345
	4,798,631
	452,757
	1,357,943
4,178,167	2,553,875
36,401,314	35,448,551
169,050	308,450
4,766,738	4,973,765
120,038,457	92,661,726
36,025,076	63,410,817
2,548,090	2,730,898
163,547,411	164,085,656
199.948.725	199,534,207
6.452	19,577,145
	2,760,822
1 329 170	1,450,004
	10,989,955
	34,777,926
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149.340.220	135,834,427
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118,486,008	112,022,233
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89,637,301	86,687,603
9,065,615	14,420,741
	6,905,878
5.327.123	
5,327,123 24,368,031	
5,327,123 24,368,031 \$ 396,224,298	(9,218,195) \$ 346,652,687
	1,975,457 1,253,181 <b>56,563,855</b> 3,336,525 17,251,715 10,088,253 18,496,797 234,279,866 6,989,028 248,501,370 4,226,637 2,669,132 <b>545,839,323</b> <b>602,403,178</b> 5,062,918 1,112,819 <b>6,175,737</b> <b>25,457,322</b> 4,986,774 447,020 1,332,031 4,178,167 <b>36,401,314</b> 169,050 4,766,738 120,038,457 <b>36,025,076</b> 2,548,090 <b>163,547,411</b> <b>199,948,725</b> 6,452 1,329,170 <b>11,070,270</b> <b>12,405,892</b> 149,340,220 118,486,008 89,637,301



# MICHIGAN TECHNOLOGICAL UNIVERSITY

# STATEMENTS OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION

	Year End 2023	led Jun	e 30 2022
Revenues	 		
Operating revenues			
Student tuition and fees (net of scholarship allowances of			
\$54,174,620 and \$50,169,849 in 2023 and 2022, respectively)	\$ 106,273,322	\$	102,157,014
Federal grants and contracts	38,221,107		35,255,011
State and local grants and contracts	5,794,903		4,828,756
Nongovernmental grants and contracts	25,253,316		23,927,723
Educational activities	5,809,854		4,892,474
Departmental activities	11,158,971		9,475,834
Student residence fees (net of scholarship allowances of			
\$10,162,767 and \$9,742,905 in 2023 and 2022, respectively)	19,859,612		19,726,245
Total operating revenues	 212,371,085		200,263,057
Expenses			
Operating expenses			
Compensation and benefits	192,430,943		162,656,867
Supplies and services	68,594,543		60,731,662
Student financial support	11,498,389		16,946,785
Utilities	7,081,475		6,516,613
Depreciation and amortization	16,457,358		14,318,065
Total operating expenses	 296,062,708		261,169,992
Operating loss	 (83,691,623)		(60,906,935)
Nonoperating revenues (expenses)			
Federal Pell grants	4,944,840		5,031,356
Federal grants, other	1,236,195		529,047
Federal coronavirus relief funds	-		12,420,301
State appropriations	96,816,078		53,337,200
Gifts	9,921,860		10,532,471
Investment return (loss)	13,165,036		(7,540,534)
Interest on capital asset-related debt	(4,061,359)		(3,551,392)
Loss on disposal of capital assets	(281,228)		(327,947)
Net nonoperating revenues	 121,741,422		70,430,502
Income (loss) before other revenues	38,049,799		9,523,567
Other revenues			
Capital grants and gifts	5,642,138		1,606,692
Gifts for permanent endowment purposes	5,761,062		5,385,720
Other revenues	118,612		110,393
Total other revenues	 11,521,812		7,102,805
Change in net position	 49,571,611		16,626,372
Net position			
Beginning of year	346,652,687		330,026,315
End of year	\$ 396,224,298	\$	346,652,687

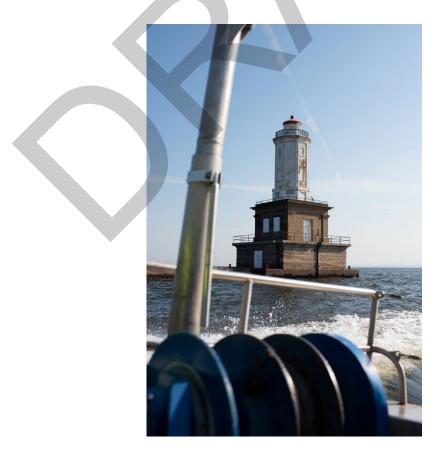
# MICHIGAN TECHNOLOGICAL UNIVERSITY STATEMENTS OF CASH FLOWS

	Year Ended June 30		
	2023	2022	
Cash flows from operating activities			
Student tuition and fees	\$ 106,294,205	\$ 101,834,719	
Grants and contracts	68,233,966	62,457,389	
Payments to employees	(146,443,514)	(133,281,335)	
Payments for benefits	(89,424,602)	(42,582,346)	
Payments to suppliers	(66,974,647)	(60,186,239)	
Payments for utilities	(7,081,475)	(6,516,613)	
Payments for financial aid	(11,498,389)	(16,946,785)	
Loans issued to students	(106,822)	(104,757)	
Collection of loans to students	1,448,579	1,635,033	
Departmental activities	11,136,318	9,438,322	
Educational activities	4,679,021	5,426,555	
Student residence fees	19,990,646	19,643,426	
William D. Ford direct lending cash received	24,481,433	25,099,679	
William D. Ford direct lending cash disbursed	(24,490,551)	(25,117,885)	
Other (payments) receipts	(175,595)	67,530	
Net cash used in operating activities	(109,931,427)	(59,133,307)	
Cash flows from noncapital financing activities			
Federal Pell grants	5,145,180	4,874,132	
Federal grants, other	1,236,195	-	
Federal coronavirus relief funds	_	12,949,348	
State appropriations	96,710,785	53,232,346	
Gifts and grants for other than capital purposes	8,061,769	7,356,276	
Payments to annuitants	(454,095)	(433,528)	
Other receipts	118,612	110,393	
Net cash from noncapital financing activities	110,818,446	78,088,967	
Cash flows from capital and related financing activities	-,, -		
Grants and gifts received for capital and endowment purposes	5,996,514	6,537,752	
Proceeds from sale of capital assets	22,653	37,512	
Purchases of capital assets	(37,631,034)	(12,271,154)	
Proceeds from issuance of debt refinancing	29,995,568	37,903,391	
Principal paid on capital debt and leases	(4,290,206)	(26,941,886)	
Interest paid on capital debt and leases	(4,129,332)	(3,428,032)	
Net cash from (used in) capital and related financing activities	(10,035,837)	1,837,583	
Cash flows from investing activities			
Proceeds from sales and maturities of investments	41,987,657	31,728,964	
Purchase of investments	(56,673,395)	(39,004,371)	
Income on investments	6,171,001	3,708,796	
Net cash used in investing activities	(8,514,737)	(3,566,611)	
Net change in cash and cash equivalents	(17,663,555)	17,226,632	
Cash and cash equivalents, beginning of year	52,885,466	35,658,834	
Cash and cash equivalents, end of year	\$ 35,221,911	\$ 52,885,466	
Cash and cash equivalents per statement of net position	\$ 25,133,658	\$ 42,336,097	
Restricted cash for capital projects - unspent bond proceeds	10,088,253	10,549,369	
Total cash and cash equivalents per statement of net position	\$ 35,221,911	\$ 52,885,466	



# MICHIGAN TECHNOLOGICAL UNIVERSITY STATEMENTS OF CASH FLOWS (CONTINUED)

	Year Ende	d June 30
	2023	2022
Reconciliation of operating loss to net cash from operating activities		
Operating loss	\$ (83,691,623)	\$ (60,906,935)
Adjustments to reconcile operating loss to net cash from operating activities:		
Depreciation and amortization expense	16,457,358	14,318,065
Noncash gifts	1,221,346	(192,682)
Changes in operating assets and liabilities:		
Receivables, net	(1,861,246)	(2,112,000)
Other assets	(14,767)	(33,472)
Student loans receivable	1,341,454	1,530,279
Accounts payable and other accrued liabilities	(4,019,318)	1,919,520
Unearned revenue	213,144	896,128
Enrollment deposits	(246,400)	(137,700)
Insurance and benefit reserves	(25,912)	(76,410)
Change in net pension and OPEB liabilities and assets and deferred amounts	(39,305,463)	(14,338,100)
Net cash used in operating activities	\$ (109,931,427)	\$ (59,133,307)
Supplemental disclosure of non-cash items		
Capital gifts-in-kind received	\$ 1,296,013	\$ 314,393



# NOTES TO THE FINANCIAL STATEMENTS

(1) BASIS OF PRESENTATION AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

# **BASIS OF PRESENTATION**

# **Reporting Entity**

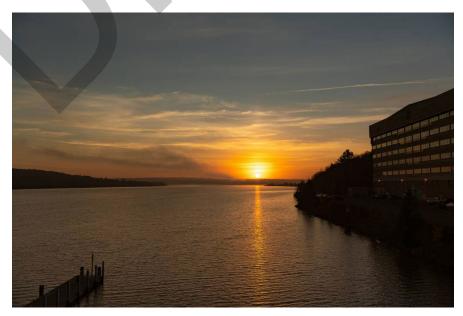
Michigan Technological University ("University") is an institution of higher education and is considered to be a component unit of the State of Michigan because its Board of Trustees is appointed by the Governor of the State of Michigan. Accordingly, the University is included in the State's financial statements as a discretely presented component unit. Transactions with the State of Michigan relate primarily to appropriations for operations, grants from various state agencies, State Building Authority (SBA) revenues, and payments to the state retirement system for University employees.

The University has two component units which are described below. The descriptions include the impact that each component unit has on the University.

The Michigan Tech Fund ("Fund") is a legally separate tax-exempt component unit of the University. The primary purpose of the Fund is to receive, invest, and disburse gifts received on behalf of the University. The Fund provides services entirely to the University and has substantially the same governing body. The Fund is blended into the University's financial statements because management of the University has operational responsibility for the Fund and the Fund exclusively benefits the University. The June 30, 2023, audited financial statements of the Fund can be obtained from its office at 1400 Townsend Drive, Houghton, MI 49931, or at www.mtu.edu/giving/about/tech-fund/.

The Michigan Tech Entrepreneurial Support Corporation (MTESC) is a legally separate tax-exempt component unit of the University. The primary purpose of the MTESC is to support the entrepreneurial and commercial development efforts of the University. The MTESC meets the criteria for blending its financial activity into the University's financial statements. The MTESC provides services entirely to the University and has substantially the same governing body. The University, however, has excluded the MTESC's financial activity from the financial statements due to insignificance.

The financial statements include the operations of the University and the Fund, collectively known as the University's financial statements. All significant accounts and transactions between the Fund and the University have been eliminated.





Condensed financial information for the Michigan Tech Fund is provided below:

# MICHIGAN TECH FUND CONDENSED STATEMENTS OF NET POSITION AS OF JUNE 30

	 2023	 2022
Assets		
Current assets	\$ 13,827,017	\$ 11,687,013
Noncurrent assets:		
Investments	182,301,018	171,980,194
Accounts receivable from the University	164,000	271,000
Other	 25,931,331	26,650,507
Total assets	222,223,366	210,588,714
Liabilities		
Current liabilities:		×.
Accounts payable to the University	-	267,018
Other	465,741	478,704
Noncurrent liabilities	 4,766,738	 4,973,765
Total liabilities	5,232,479	5,719,487
Deferred inflows	11,070,270	10,989,955
Net position		
Restricted		
Nonexpendable	118,486,008	112,022,233
Expendable	77,517,839	72,667,830
Unrestricted	 9,916,770	 9,189,209
Total net position	\$ 205,920,617	\$ 193,879,272



# MICHIGAN TECH FUND

# CONDENSED STATEMENTS OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION YEAR ENDED JUNE 30

	2023	 2022
Operating expenses		
Supplies and services	\$ 10,574,539	\$ 12,332,766
Student financial support	3,567,901	 3,025,139
Total operating expenses	14,142,440	 15,357,905
Operating loss	(14,142,440)	(15,357,905)
Nonoperating revenues (expenses) and other revenues		
Gifts	9,651,844	10,581,204
Investment (loss) return	9,780,395	(7,226,708)
Gifts for capital and permanent endowment purposes	6,632,934	6,678,018
Other revenues	118,612	 110,393
Net nonoperating revenues and other revenues	26,183,785	 10,142,907
Change in net position	12,041,345	(5,214,998)
Net position		
Beginning of year	193,879,272	 199,094,270
End of year	\$ 205,920,617	\$ 193,879,272

# MICHIGAN TECH FUND CONDENSED STATEMENTS OF CASH FLOWS YEAR ENDED JUNE 30

	 2023	2022		
Cash flows from				
Operating activities	\$ (13,195,338)	\$	(15,265,328)	
Noncapital financing activities	7,456,270		7,081,874	
Capital and related financing activities	6,362,193		6,768,877	
Investing activities	 993,167		473,910	
Net increase in cash and cash equivalents	1,616,292		(940,667)	
Cash and cash equivalents, beginning of year	 10,227,593		11,168,260	
Cash and cash equivalents, end of year	\$ 11,843,885	\$	10,227,593	

# **Basis of Presentation**

The accompanying financial statements have been prepared using the economic resource measurement focus and the accrual basis of accounting. In accordance with governmental accounting standards, the University follows all applicable Governmental Accounting Standards Board (GASB) pronouncements. In applying these accounting pronouncements, the University follows the guidance for special-purpose governments engaged only in "business type" activities rather than issuing financial statements that focus on accountability of individual funds.



# **Use of Estimates**

The preparation of the financial statements in accordance with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates. Significant estimates include, but are not limited to, the allowance for doubtful accounts and pledges receivable, accrued compensated absences, net pension and other post employment benefits (OPEB) liabilities, insurance claims incurred but not reported, fair value of investments that are not readily marketable, and life expectancies for split-interest gift agreements.

# SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

# **Cash and Cash Equivalents**

The University considers all highly liquid investments (including restricted assets) with a maturity of three months or less when purchased to be cash equivalents. On the Statements of Net Position, restricted cash (unspent bond proceeds) is segregated from cash and cash equivalents and included in noncurrent assets. For the Statements of Cash Flows, however, restricted cash is included in the beginning and ending balances of cash and cash equivalents.

# **Pledges Receivable and Gifts**

Pledges receivable and gifts are recognized at their fair values as revenues in the periods received. Pledges receivable that are expected to be collected in future years are recorded at the present value of estimated future cash flows. All pledges receivable are recorded at their net realizable values.

# Investments

The University's and Fund's investments in marketable securities are carried at quoted fair market value whenever possible. The University also holds land for investment purposes which functions as an endowment and is recorded at fair value. Fair value is arrived at through independent appraisals of the land and of the timber holdings. Alternative investments consisting of hedge funds, private equity funds and other limited partnership interests, are valued using net asset value as a practical expedient.

# **Capital Assets**

The University currently uses a \$5,000 capitalization threshold for capital assets acquired with an estimated useful life in excess of one year. Physical properties are stated at cost when purchased. Donated capital assets are recorded at acquisition value on date of receipt. Depreciation is provided for physical properties on a straight-line basis over the estimated useful life of the property, generally as follows:

Classification	Life
Buildings	40 years
Land improvements and infrastructure	20 years
Equipment	7 years
Computer equipment	5 years
Library books	5 years

# **Subscriptions**

The University obtains the right to use vendors' information technology software through various long-term contracts. The University recognizes a subscription liability and an intangible right-of-use subscription asset (the "subscription asset") in the applicable governmental or business-type activities column in the government-wide financial statements. The University recognizes subscription assets and liabilities with an initial value of \$0 or more.

At the commencement of a subscription, the University initially measures the subscription liability at the present value of payments expected to be made during the subscription term. Subsequently, the subscription liability is reduced by the principal portion of subscription payments made. The subscription asset is initially measured as the initial amount of the subscription liability, adjusted for subscription payments made at or before the subscription commencement date, plus initial implementation costs. Subsequently, the subscription asset is depreciated on a straight-line basis over its useful life.

Key estimates and judgments related to subscriptions include how the University determines the discount rate it uses to discount the expected subscription payments to present value and the subscription term.

The University uses the interest rate charged by the vendor as the discount rate. When the interest rate charged by the vendor is not provided, the University generally uses its estimated incremental borrowing rate as the discount rate for subscriptions.

The subscription term includes the noncancelable period of the subscription.

The University monitors changes in circumstances that would require a remeasurement of its subscriptions and will remeasure the subscription asset and liability if certain changes occur that are expected to significantly affect the amount of the subscription liability.

Subscription assets are reported with other capital assets, and subscription liabilities are reported with long-term debt on the statement of net position.

# **Revenue Recognition**

Revenues are recognized when earned. State appropriation revenue is recognized in the period for which it is appropriated. Restricted grant revenue is recognized only to the extent expended. Restricted and unrestricted resources are allocated to the appropriate departments within the University that are responsible for adhering to any donor restrictions. Student tuition and fee revenues and student residence fee revenues are reported net of scholarship allowances in the Statements of Revenues, Expenses and Changes in Net Position. Scholarship allowances represent the difference between the stated charge for goods and services provided by the University and the amount that is paid by the students or third parties on behalf of the students, where the University has discretion over such expenses.

# **Operating and Nonoperating Revenues**

The University's policy for defining operating activities as reported on the statement of revenues, expenses, and changes in net position is to report those activities that generally result from exchange transactions, such as payments received for providing services and payments made for services or goods received. Nearly all the University's expenses are from exchange transactions. Certain significant revenue streams relied upon for operations are recorded as nonoperating revenues due to their non-exchange nature, which include state appropriations and investment income. Restricted and unrestricted resources are spent and tracked within donor guidelines, if any, by the awarded University department. Federal Pell grant revenue is also classified as nonoperating. The amounts received for 2023 and 2022 are \$4,944,840 and \$5,031,356 respectively.

# **Classification of Expenses**

Expenses are recognized when the service is provided or when materials are received. The University and the Fund have classified expenses as either operating or nonoperating expenses according to the following criteria:

# **Operating Expenses**

Operating expenses include activities that have the characteristics of exchange transactions, such as (1) employee salaries, benefits, and related expenses; (2) scholarships and fellowships, net



of scholarship discounts and allowances; (3) utilities, supplies, and other services; (4) professional fees; and (5) depreciation expense related to University capital assets.

# **Nonoperating Expenses**

Nonoperating expenses include activities that have the characteristics of nonexchange transactions, such as interest on capital asset-related debt and other expenses that are defined as nonoperating expenses by governmental accounting standards.



# **Income Taxes**

The University is classified as a political subdivision of the State of Michigan under Internal Revenue Code Section 115(A) and is, therefore, exempt from federal income taxes. Certain activities of the University, to the extent profitable, may be subject to taxation as unrelated business income under Internal Revenue Code Sections 511 to 514. The University incurred insignificant amounts of income taxes for fiscal years 2023 and 2022. The Fund is exempt from federal income taxes under Internal Revenue Code section 501(c)(3).

# **Net Position**

The University's net position is classified as follows:

# Net investment in capital assets

Capital assets, net of accumulated depreciation, unspent bond proceeds, and outstanding principal balances of debt attributable to the acquisition, construction, or improvement of those assets.

# Restricted for nonexpendable purposes

Net position from gifts and other inflows of assets that represent permanent endowments. Use of these gifts is limited by donor-imposed stipulations that neither expire by the passage of time nor can be fulfilled or otherwise removed by the University.

### Restricted for expendable purposes

Net position whose use is subject to externally imposed stipulations that can be fulfilled by actions of the University pursuant to those stipulations or that expire by the passage of time. Such net position includes net appreciation of permanent endowment funds and funds designated for student financial aid and other University programs. Under Michigan law set forth in Uniform Prudent Management of Institutional Funds Act, as adopted in Michigan in 2009 ("UPMIFA"), the Board acts in a fiduciary capacity as trustee of its endowment funds. UPMIFA requires that the Board exercise its fiduciary duties prudently and consider both the charitable purposes and needs of the University and the purposes of the specific endowment regarding current expenditures and preservation of the purchasing power of the funds. Under the programmatic spending policy established by the Board, 3.6% and 3.8% of the average market value of endowment investments for the twelve quarters of the three fiscal years prior to the beginning of the fiscal year was authorized for expenditure for fiscal year 2023 and 2022.

# Unrestricted

Net position that is not subject to externally imposed stipulations. Unrestricted net position may be designated for specific purposes by action of the University's Board of Trustees or may otherwise be limited by contractual agreements with outside parties.

# **Deferred Outflows of Resources**

In addition to assets, the Statements of Net Position will sometimes report a separate section for deferred outflows of resources. This separate financial statement element represents a consumption of net position that applies to one or more future periods and so will not be recognized as an outflow of resources (expense) until then. The University reports deferred outflows of resources for certain pension and OPEB related amounts, such as change in expected and actual experience, changes in assumptions, and certain contributions made to the plan subsequent to the measurement date.

# **Deferred Inflows of Resources**

In addition to liabilities, the Statements of Net Position will sometimes report a separate section for deferred inflows of resources. This separate financial statement element, deferred inflows of resources, represents an acquisition of net position that applies to one or more future periods and so will not be recognized as an inflow of resources (revenue) until that time. The University reports deferred inflows of resources for certain pension and OPEB related amounts, such as the difference between projected and actual earnings of the pension plan's investments and appropriations received for the pension plan subsequent to the measurement date. The University reports deferred inflows of resources for irrevocable split-interest agreements such as charitable remainder trusts, charitable gift annuities and pooled income funds. The remainder interests of split-interest agreements cannot be recognized as revenue until after the split-interest agreement is terminated. The University reports deferred inflows of resources for the gain on refunding of defeased debt.

# Pension

For purposes of measuring the net pension liability, deferred outflows of resources and deferred inflows of resources related to pensions, and pension expense, information about the fiduciary net position of the plan and additions to/deductions from the plan fiduciary net position have been determined on the same basis as they are reported by the plan. For this purpose, benefit payments (including refunds of employee contributions) are recognized when due and payable in accordance with the benefit terms. Investments are reported at fair value.

# **Postemployment Benefits Other Than Pensions**

For the purposes of measuring the net OPEB liability, deferred outflows of resources and deferred inflows of resources related to OPEB, and OPEB expense, information about the fiduciary net position of the plan and additions to/deductions from the plan fiduciary net position have been determined on the same basis as they are reported by the plan. For this purpose, benefit payments (including refunds of employee



contributions) are recognized when due and payable in accordance with the benefit terms. Investments are reported at fair value.

# **GASB** Pronouncements Adopted

Effective for the fiscal year ended June 30, 2023, the University adopted GASB Statement No. 96 ("GASB 96"). This statement requires a government to recognize a financial subscription liability and an intangible right-to-use subscription asset for Subscription Based Information Technology Arrangements ("SBITAs"). At July 1, 2022, the University had \$2.5 million in right-to-use assets and liabilities. Due to the immaterial nature of the University's SBITAs in prior years, the University adopted the provisions of GASB 96 as of July 1, 2022; therefore no restatements were recorded in prior years.

# **Upcoming GASB Statements**

In June 2022, the Governmental Accounting Standards Board issued GASB Statement No. 101, Compensated Absences, which updates the recognition and measurement guidance for compensated absences under a unified model. This statement requires that liabilities for compensated absences be recognized for leave that has not been used and leave that has been used but not yet paid in cash or settled through non-cash means and establishes guidance for measuring a liability for leave that has not been used. It also updates disclosure requirements for compensated absences. The provisions of this statement are effective for the University's financial statements for the year ending June 30, 2025.

# (2) CASH AND INVESTMENTS

# **Authorizations**

The University utilizes the "pooled cash" method of accounting for substantially all of its cash and cash equivalents. The University investment policies are governed and authorized by University Bylaws and the Board of Trustees. The Fund's investment policies are governed by its Board of Directors and the performance of its investments is monitored by its Investment Committee.

# Interest rate risk

The University has investment guidelines and the Fund has an investment policy statement which divide investments into pools based on liquidity needs, duration, and appropriate risk versus return percentage. The maturities of the University's fixed income investments as of June 30 are categorized below:

	June 30, 2023							
	Fair Value	Less than 1 Year	1 to 5 Years	6 to 10 Years				
Mutual funds - fixed Income	\$ 83,191,344	\$ 6,384,935	\$ 23,889,942	\$ 52,916,467				
Corporate bonds and notes	416,368	43,441	257,568	115,359				
US government obligations	19,513,131	9,393,462	9,919,145	200,524				
Total	\$ 103,120,843	\$ 15,821,838	\$ 34,066,655	\$ 53,232,350				
		June 3	0, 2022					
	Fair Value	Less than 1 Year	1 to 5 Years	6 to 10 Years				
Mutual funds - fixed Income	\$ 85,304,098	\$ 9,164,503	\$ 64,814,057	\$ 11,325,538				
Corporate bonds and notes	363,076	35,024	209,615	118,437				
US government obligations	967,425	126,580	678,425	162,420				
Total	\$ 86,634,599	\$ 9,326,107	\$ 65,702,097	\$ 11,606,395				

# **INVESTMENT MATURITIES**

# Credit risk

Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligations. Credit risk is mitigated by limiting investments to those approved by Board policy and by diversifying the investment portfolio so that the failure of any one issuer or backer will not place an undue financial burden on the University. The University had the following debt instruments subject to interest rate fluctuations at June 30, 2023 and 2022:

	Market Value	D. II. Dellass Assesses		Market Value		
	June 30, 2023	Rating	Rating Agency	June 30, 2022	Rating	Rating Agency
Mutual funds - fixed income	\$ 1,125,370	5-star	Morningstar	\$ 803,496	5-star	Morningstar
Mutual funds - fixed income	12,442,121	4-star	Morningstar	17,292,683	4-star	Morningstar
Mutual funds - fixed income	41,436,414	3-star	Morningstar	36,723,708	3-star	Morningstar
Mutual funds - fixed income	182,892	2-star	Morningstar	-		
Mutual funds - fixed income	27,992		ot available	389,675		t available
Mutual funds - fixed income	16,847,017	AA Av	erage Quality	18,795,075	AA Av	erage Quality
Mutual funds - fixed income	5,230,205	AA- Av	verage Quality	5,650,449	AA- Av	verage Quality
Mutual funds - fixed income	5,899,333	A+ Av	erage Quality	5,649,010	A+ Av	erage Quality
Corporate bonds and notes						
Arrow Electrs Note	-			10,038	BBB-	S&P
Abbvie Inc Sr Note	8,937	BBB+	S&P	9,028	BBB+	S&P
Boeing Co Debenture	23,485	BBB-	S&P	24,564	BBB-	S&P
Stryker Corp Sr Note	9,562	BBB+	S&P	9,834	A-	S&P
Walgreens Boots Alliance Inc Note	8,438	BBB	S&P	8,762	BBB	S&P
Coca Cola Enterprises Inc Debenture	9,724	A+	S&P	10,369	A+	S&P
Microsoft Corp Note	9,941	AAA	S&P	10,081	AAA	S&P
Raytheon Co Debenture	11,721	A-	S&P	12,331	A-	S&P
Celgene Corp Sr Note	14,041	A+	S&P	14,729	A+	S&P
Chevron Corp	24,564	AA-	S&P	24,937	AA-	S&P
Intel Corp	21,621	A+	S&P	22,307	A+	S&P
Pfizer	-	A+	S&P	24,986	A+	S&P
Royal Bank of Canada	23,855	А	S&P	24,130	А	S&P
Visa Inc	23,963	AA-	S&P	24,610	AA-	S&P
Comcast Corp	45,907	A-	S&P	46,608	A-	S&P
State Street Corp	43,139	А	S&P	43,610	А	S&P
Blackrock Inc	20,161	AA-	S&P	20,648	AA-	S&P
Merck & Co Inc	20,714	A+	S&P	21,505	A+	S&P
Toyota Motor Credit Corp	22,353	A+	S&P	-		
UnitedHealth Group Inc	23,892	A+	S&P	-		
Westpac Banking Corp	25,371	AA-	S&P	-		
John Deere Capital Corp	24,979	А	S&P	-		
US government obligations						
Federal Farm Credit Banks	1,277,067	AA+	S&P	60,862	AA+	S&P
US Treasury Notes	10,439,708	AAA	Moody's	857,791	AAA	Moody's
Federal Home Loan Banks	6,521,868	AAA	Moody's	-		
Federal Home Loan Mortgage Corp	1,251,413	AAA	Moody's	-		
Fed National Mortgage Assn	23,075	AA+	S&P	48,773	AA+	S&P

Total

\$ 103,120,843

\$ 86,634,599





# Custodial credit risk: deposits

For deposits, custodial credit risk is present if the University's deposits would not be covered by depository insurance or collateralized by the bank. Deposits were reflected in the accounts of the banks of \$35,282,000 and \$53,290,476 as of June 30, 2023 and 2022, respectively. The University had \$21,506,824 and \$13,524,154 exposed to custodial credit risk because the deposits were uninsured or uncollateralized, as of June 30, 2023 and 2022, respectively.

# Custodial credit risk: investments

For an investment, custodial credit risk is the risk that, in the event of the failure of the counterparty, the University will not be able to recover the value of its investments or collateral securities that are in the possession of an outside party. Investments in external investment pools and open-ended mutual funds are not exposed to custodial credit risk because their existence is not evidenced by securities that exist in physical and book entry form. All investments are in the name of the University or Fund, as applicable, and the investments are held in accounts with each financial institution from which they were purchased.

# Concentration of credit risk

Concentration of credit risk is the risk of loss attributed to the magnitude of investment in a single issuer. Neither the University's nor the Fund's investment policy has specific limits on concentration of credit risk. The following investments comprise more than 5% of the total investments as of June 30:

	Market Value June 30, 2023	Market Value June 30, 2022		
Vanguard Total Bond Market	\$ 41,100,162	\$ 36,486,424		
Vanguard Total Stock Market ETF	19,440,591	18,496,454		
Vanguard International Equity Index Fund	17,968,957	16,690,276		
Total	<u>\$ 78,509,710</u>	\$ 71,673,154		

# Foreign currency risk

Foreign currency risk is the risk that changes in exchange rates will adversely affect the fair value of an investment or deposit. All of the University's foreign investments at June 30, 2023 and 2022 are valued in US dollars, therefore the University was not subject to foreign currency risk.



# **Investments and Investment Return**

Investments and restricted investments, carried at fair value, at June 30, are categorized as follows:

# **INVESTMENT PORTFOLIO**

	2023	2022
Marketable securities		
Equities	\$ 24,269,285	\$ 22,879,083
Equity mutual funds	59,199,454	57,552,966
Fixed income mutual funds	 103,120,843	86,634,599
Total marketable securities	186,589,582	167,066,648
Alternative investments		
Hedge funds	10,300,610	8,050,302
Real estate and natural resources	14,117,572	11,874,087
Private equity limited partnerships	28,555,520	27,509,045
Global credit	2,330,624	 2,312,213
Total alternative investments	55,304,326	49,745,647
Closely-held stock	20,000	20,000
Land held for investment	 10,862,755	 11,368,583
Total investments	\$ 252,776,663	\$ 228,200,878

The University's net investment return is comprised of the following for the years ended June 30:

# **INVESTMENT RETURN**

	 2023	 2022
Dividends and interest	\$ 6,350,443	\$ 3,551,413
Net gain on sale of investments	1,018,313	3,094,095
Net increase (decrease) in the fair value of investments	6,353,986	(13,560,593)
Investment fees	 (557,706)	 (625,449)
Total investment return (loss)	\$ 13,165,036	\$ (7,540,534)

The following tables present information about the University's assets measured at fair value on a recurring basis at June 30, 2023 and 2022 and the valuation techniques used by the University to determine those fair values.

In general, fair values determined by Level 1 inputs use quoted prices in active markets for identical assets or liabilities that the University has the ability to access.

Fair values determined by Level 2 inputs use other inputs that are observable, either directly or indirectly. These Level 2 inputs include quoted prices for similar assets in active markets, and other inputs such as interest rates and yield curves that are observable at commonly quoted intervals.

Level 3 inputs are unobservable inputs, including inputs that are available in situations where there is little, if any, market activity for the related asset.



In instances where inputs used to measure fair value fall into different levels in the above fair value hierarchy, fair value measurements in their entirety are categorized based on the lowest level input that is significant to the valuation. The University's assessment of the significance of particular inputs to these fair value measurements requires judgement and considers factors specific to each asset.

The fair values of investments and restricted investments measured on a recurring basis at June 30, 2023 are as follows:

		Quoted Prices in Active Markets for Identical Assets	Significant Other Observable Inputs	Significant Unobservable Inputs
	Fair Value	(Level 1)	(Level 2)	(Level 3)
Equities	\$ 24,269,285	\$ 24,269,285	\$ -	\$ -
Equity mutual funds	45,894,917	45,894,917	-	-
Fixed income mutual funds	75,144,288	74,727,920	416,368	-
Land held for investment	10,862,755	-	-	10,862,755
Closely-held stock	20,000	-	-	20,000
Total investments by fair value level	156,191,245	\$ 144,892,122	\$ 416,368	\$ 10,882,755
Investments measured at the net asset value: Commonfund equity funds Commonfund fixed income funds Hedge funds Real estate and natural resources Private equity limited partnerships Global credit Total investments at the net asset value Total investments	13,304,537 27,976,555 10,300,610 14,117,572 28,555,520 2,330,624 96,585,418 \$ 252,776,663			
	<u> </u>			
Beneficial interest in charitable remainder				
trusts at the net asset value	\$ 6,989,028	<u> </u>	\$ -	\$ 6,989,028

The fair values of investments measured on a recurring basis at June 30, 2022 are as follows:

	Fair Value	Joted Prices in Active Markets for entical Assets (Level 1)	Ob	nificant Other servable nputs evel 2)	Significant observable Inputs (Level 3)
Equities	\$ 22,879,083	\$ 22,879,083	\$	-	\$ -
Equity mutual funds	42,630,399	42,630,399		-	-
Fixed income mutual funds	56,540,066	56,176,990		363,076	-
Land held for investment	11,368,583	-		-	11,368,583
Closely-held stock	 20,000	 -		-	 20,000
Total investments by fair value level	133,438,131	\$ 121,686,472	\$	363,076	\$ 11,388,583
Investments measured at the net asset value: Commonfund equity funds Commonfund fixed income funds Hedge funds Real estate and natural resources Private equity limited partnerships Global credit Total investments at the net asset value Total investments	\$ 14,922,566 30,094,534 8,050,302 11,874,087 27,509,045 2,312,213 94,762,747 228,200,878				
Beneficial interest in charitable remainder trusts at the net asset value	\$ 6,806,179	\$ 	\$		\$ 6,806,179

The University holds shares or interests in investment companies whereby the fair value of the investments are measured on a recurring basis using net asset values per share (or its equivalent) of the investment companies as a practical expedient. At year-end, the net asset value, the unfunded commitments, and redemptions rules of those investments are as follows:

	Net Asset Value FY 2023	Net Asset Value FY 2022	Unfunded Commitments FY 2023	Unfunded Commitments FY 2022	Redemption Frequency	Redemption Notice Period
Commonfund equity funds (1)	\$ 13,304,537	\$ 14,922,566	\$ -	\$ -	Monthly	5 business days
Commonfund fixed income funds (2)	27,976,555	30,094,534	-	-	Monthly	5 business days
Hedge funds (3)	10,300,610	8,050,302	_	_	Quarterly	90 calendar days + 5 business days
				$\frown$	Quarterly for one fund - not redeemable	Quarterly for one fund - NA for other funds
Real estate and natural resources (4)	14,117,572	11,874,086	5,053,525	5,058,399	for others	
Private equity limited partnerships (5)	28,555,520	27,509,046	26,474,017	14,710,553	NA	NA
Global credit (6)	2,330,624	2,312,213	-	-	Semi- annually	90 calendar days
Total	\$ 96,585,418	\$ 94,762,747	\$ 31,527,542	\$ 19,768,952		

### Strategy

- (1) This category includes two funds which have the objective to outperform the S&P 500 by reducing risk through diversification of manager allocations and by investing in lower volatility stocks.
- (2) This category includes four funds which have the objective to outperform their benchmarks by reducing risk through diversification of manager allocations, by generating a higher current yield than short-term money market funds, and by investing in securities and strategies that offer the potential for increased yield.
- (3) This category includes two multi-strategy hedge funds.
- (4) This category includes funds that invest in commercial and residential real estate funds with U.S. properties and natural resource sector funds.
- (5) This category includes numerous private equity limited partnerships that invest in leverage buyouts, venture capital, growth equity financing, opportunistic situations, high yield, and subordinated debt across the primary and secondary markets.
- (6) This category includes one fund that invests in public and private credit markets, focusing on core, yield-oriented investments, supplemented by opportunistic positions with higher expected returns.





# (3) RECEIVABLES

Accounts receivable of the University are summarized as follows as of June 30:

# ACCOUNTS RECEIVABLE

	 2023	 2022
Student tuition and fees	\$ 455,646	\$ 408,672
State appropriations		
Operating	9,445,635	9,340,342
Capital	4,077,266	237,334
Grants and contracts	13,028,987	11,261,682
Auxiliary activities	116,097	301,024
Other	1,180,803	882,231
Less allowance for doubtful accounts	 (102,875)	 (102,875)
Accounts receivable, net	\$ 28,201,559	\$ 22,328,410

In addition, the University has student loans receivable in the amount of \$3,336,525 and \$4,677,979, recorded at June 30, 2023 and 2022, respectively. These amounts are net of an allowance for uncollectible accounts of \$174,000 at June 30, 2023 and 2022.

Pledges receivable of the University are summarized as follows as of June 30:

# PLEDGES RECEIVABLE

	2023	 2022
Pledges receivable in less than one year	\$ 3,501,854	\$ 2,644,292
Pledges receivable in one to five years	8,685,579	6,884,903
Pledges receivable in more than five years	10,794,257	13,089,691
Less:		
Allowance for uncollectible pledges	(1,526,397)	(1,191,799)
Present value discount	(2,228,121)	 (2,358,667)
Pledges receivable, net	\$ 19,227,172	\$ 19,068,420

The present value of future cash flows were estimated using .25% over the risk-adjusted rate at the date of the gift. For fiscal year 2023, rates range from 4.1% to 5.1%.



# (4) CAPITAL ASSETS

The following table presents the changes in the capital asset class categories for the year ended June 30, 2023: CHANGES IN CAPITAL ASSETS

		nning Balance	Additions/ Transfers		Disposals/ Transfers		Ending Balance	
Nondepreciable capital assets								
Land	\$	10,713,548	\$	-	\$	(5,900)	\$	10,707,648
Mineral collections		6,221,172		12,720		-		6,233,892
Timber holdings		376,088		-		(1,880)		374,208
Construction in progress		10,152,429		32,840,925		(4,941,605)		38,051,749
Cost of nondepreciable capital assets		27,463,237		32,853,645		(4,949,385)		55,367,497
Depreciable capital assets								
Land improvements		1,163,243		-		-		1,163,243
Infrastructure		6,852,140		-		(16,111)		6,836,029
Buildings		398,956,290		4,928,240		-		403,884,530
Equipment		35,727,506		7,261,374		(5,034,541)		37,954,339
Library books		75,520		8,924		(22,044)		62,400
Cost of depreciable capital assets		442,774,699		12,198,538		(5,072,696)		449,900,541
Right-to use assets (SBITAs)		-		3,694,309		-		3,694,309
Total cost of capital assets		470,237,936		48,746,492		(10,022,081)		508,962,347
Less: accumulated depreciation								
Land improvements		392, 187		58,850		-		451,037
Infrastructure		3,818,859		344,563		-		4,163,422
Buildings		224,845,102		9,326,417		(4,761,093)		229,410,426
Equipment		19,704,485		4,870,199		(16,111)		24,558,573
Library books		42,235		10,697		(22,044)		30,888
Total accumulated depreciation		248,802,868		14,610,726		(4,799,248)		258,614,346
Less: accumulated amortization								
Right-to-use assets (SBITAs)		-		1,846,631		-		1,846,631
Capital assets, net	\$	221,435,068	\$	32,289,135	\$	(5,222,833)	\$	248,501,370





The following table presents the changes in the capital asset class categories for the year ended June 30, 2022:

# CHANGES IN CAPITAL ASSETS

	Begin	ning Balance	Additions/ Transfers	Disposals/ Transfers	End	ding Balance
Nondepreciable capital assets						
Land	\$	10,762,548	\$ -	\$ (49,000)	\$	10,713,548
Mineral collections		6,221,172	-	-		6,221,172
Timber holdings		376,088	-	-		376,088
Construction in progress		4,434,138	 9,284,274	(3,565,983)		10,152,429
Cost of nondepreciable capital assets		21,793,946	9,284,274	(3,614,983)		27,463,237
Depreciable capital assets						
Land improvements		1,433,979	-	(270,736)		1,163,243
Infrastructure		6,778,890	73,250	-		6,852,140
Buildings		395,465,558	3,492,732	(2,000)		398,956,290
Equipment		40,849,793	5,230,835	(10,353,122)		35,727,506
Library books		158,937	12,844	 (96,261)		75,520
Cost of depreciable capital assets		444,687,157	8,809,661	(10,722,119)		442,774,699
Total cost of capital assets		466,481,103	18,093,935	(14,337,102)		470,237,936
Less: accumulated depreciation						
Land improvements		604,073	58,850	(270,736)		392,187
Infrastructure		3,474,883	343,976	-		3,818,859
Buildings		215,621,454	9,225,448	(1,800)		224,845,102
Equipment		25,101,455	4,677,409	(10,074,379)		19,704,485
Library books		126,114	 12,382	 (96,261)		42,235
Total accumulated depreciation		244,927,979	14,318,065	(10,443,176)		248,802,868
Capital assets, net	\$	221,553,124	\$ 3,775,870	\$ (3,893,926)	\$	221,435,068



# **Construction in Progress**

One of the critical factors in continuing the quality of the University's academic programs, research programs, and residential life is the development and renewal of its capital assets. The University continues to maintain and amend its long-range capital plan to modernize its complement of older facilities balanced with new construction. Construction in progress reflects multiyear projects which, once completed and placed into service, are categorized as buildings, land improvements, and infrastructure. At June 30, construction in progress consisted of several building renovation projects and the costs of one new building as detailed below.

CONSTRUCTION IN PROGRESS										
Project		2023		2022						
Athletic Facilities renovations	\$	271,842	\$	784,361						
H-STEM Complex planning and construction		30,929,534		5,890,442						
Residence Hall renovations		124,400		1,803,302						
Research space		2,451,805		780,042						
Instructional space		1,674,877		256,525						
Office space		105,883		437,861						
Elevator additions/replacements		844,868		47,300						
Infrastructure and other projects		1,648,540		152,596						
Total	\$	38,051,749	\$	10,152,429						





# (5) LINE OF CREDIT

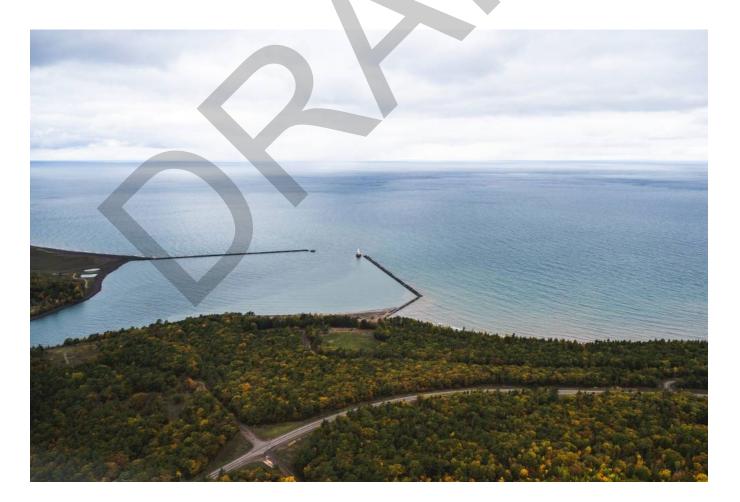
The University has a revolving line of credit agreement with one bank, which is secured by a pledge of general revenues of the University. The maximum amount available to be borrowed is \$20 million, with an interest rate per annum equal to Term SOFR (Secured Overnight Financing Rate) plus 110 basis points. The revolving line of credit agreement expires on May 22, 2025. There were no amounts outstanding under the line of credit at June 30, 2023 and 2022.

# (6) ACCOUNTS PAYABLE AND ACCRUED LIABILITIES

Accounts payable and accrued liabilities of the University are summarized as follows as of June 30:

	 2023	2022
Vendors for supplies and services	\$ 4,620,498	\$ 3,947,703
Employee benefits	1,350,393	1,724,477
Construction payables	7,240,357	4,500,087
Payroll and payroll taxes	5,842,003	9,885,787
Compensated absences	5,058,887	4,772,729
Deposits payable	 1,345,184	 1,454,562
Total accounts payable	\$ 25,457,322	\$ 26,285,345

# ACCOUNTS PAYABLE AND ACCRUED LIABILITIES



# (7) NONCURRENT LIABILITIES

NO	NCURRENT LIAE	BILITIES			
	AS OF JUNE 30, 2	.023			
General revenue bonds	Beginning Balance	Additions	Reductions	Ending Balance	Current Portion
General revenue and refunding bonds, 2008	\$ 245,000	\$ -	\$ 10,000	\$ 235,000	\$ 10,000
General revenue bonds, 2009A/2009B	13,355,000	-	505,000	12,850,000	525,000
General revenue refunding bonds, 2013A	9,165,000	-	1,010,000	8,155,000	1,040,000
General revenue bonds, 2015A	21,520,000	-	540,000	20,980,000	570,000
General revenue refunding bonds, 2020A - direct placement	4,390,000	-	175,000	4,215,000	185,000
General revenue refunding bonds, 2020B - direct placement	7,440,000	-	295,000	7,145,000	305,000
General revenue and refunding bonds, 2021	29,870,000	-	-	29,870,000	-
General revenue and refunding bonds, 2023A	-	22,705,000		22,705,000	50,000
General revenue and refunding bonds, 2023B	-	5,525,000	-	5,525,000	440,000
Total bonds payable	85,985,000	28,230,000	2,535,000	111,680,000	3,125,000
Bond premium	9,121,705	1,765,568	398,648	10,488,625	-
Note payable	108,896	-	18,875	90,021	19,408
Subscription obligations (SBITAs)	-	3,864,907	1,906,929	1,957,978	1,033,759
Total debt	95,215,601	33,860,475	4,859,452	124,216,624	4,178,167
Other liabilities					
Insurance reserves	1,357,943	18,526,472	18,552,384	1,332,031	1,332,031
Enrollment deposits	308,450	800	140,200	169,050	-
Annuity and pooled income obligations	5,426,522	298,809	511,573	5,213,758	447,020
Total	\$ 102,308,516	\$ 52,686,556	\$ 24,063,609	\$ 130,931,463	\$ 5,957,218
Due within one year				(5,957,218)	
Total noncurrent liabilities (excluding net pension and OPEB	liabilities)			\$ 124,974,245	

Total noncurrent liabilities (excluding net pension and OPEB	liabilifies)			\$ 124,974,245	
NO	NCURRENT LIAI	BILITIES			
	AS OF JUNE 30, 2	2022			- ·
General revenue bonds	Beginning Balance	Additions	Reductions	Ending Balance	Current Portion
	\$ 255,000	\$ -	\$ 10,000	\$ 245,000	\$ 10,000
General revenue and refunding bonds, 2008		<b>р</b> –	1		
General revenue bonds, 2009A/2009B	13,840,000	-	485,000	13,355,000	505,000
General revenue and refunding bonds, 2012A	23,570,000	-	23,570,000	-	-
General revenue refunding bonds, 2013A	9,880,000	-	715,000	9,165,000	1,010,000
General revenue bonds, 2015A	22,035,000	-	515,000	21,520,000	540,000
General revenue refunding bonds, 2020A - direct placement	4,560,000	-	170,000	4,390,000	175,000
General revenue refunding bonds, 2020B - direct placement	7,725,000	-	285,000	7,440,000	295,000
General revenue and refunding bonds, 2021		29,870,000		29,870,000	
Total bonds payable	81,865,000	29,870,000	25,750,000	85,985,000	2,535,000
Bond premium	3,000,847	8,033,391	1,912,533	9,121,705	-
Note payable	434,793	-	325,897	108,896	18,875
Total debt	85,300,640	37,903,391	27,988,430	95,215,601	2,553,875
Other liabilities					
Insurance reserves	1,434,353	17,350,905	17,427,315	1,357,943	1,357,943
Enrollment deposits	466,150	3,950	161,650	308,450	-
Annuity and pooled income obligations	5,651,045	269,885	494,408	5,426,522	452,757
Total	\$ 92,852,188	\$ 55,528,131	\$ 46,071,803	\$ 102,308,516	\$ 4,364,575
Due within one year				(4,364,575)	
Total noncurrent liabilities (excluding net pension and OPE	3 liabilities)			\$ 97,943,941	



# Bonds

The principal and interest on bonds are payable only from certain general revenues. The obligations are generally callable. Premiums on bonds payable are recorded in total and amortized over the life of the bonds using straight line amortization.

All bonds of the University, unless otherwise specified, have received an underlying rating of A1 from Moody's.

# **Public Debt Issuances**

During fiscal year 2009, the University's Board of Trustees approved the issuance of General Revenue and Refunding Bonds, Series 2008 in the amount of \$15.88 million. The proceeds of this bond issue were used to refund the \$10 million of Series 1998 bonds outstanding with the remainder funding the remodeling of the Michigan Tech Lakeshore Center building, remodeling of the Memorial Union ballroom and providing initial construction funds for the Keweenaw Research Center. These bonds bear fixed interest rates at 3.0% to 5.25% and mature at various dates from October 2009 through October 2038. These bonds are secured by an irrevocable pledge of general revenues as provided in the indenture. Outstanding principal of \$11.55 million was refunded with the series 2013A bonds and outstanding principal of \$4.67 million was refunded with the series 2020A bonds.

During fiscal year 2012, the University's Board of Trustees approved the issuance of General Revenue and Refunding Bonds, Series 2012A in the amount of \$33.070 million. The proceeds of this bond issue were used to partially refund Series 2003 bonds in the amount of \$3.965 million, to partially refund Series 2004 bonds in the amount of \$27.150 million with the remainder funding the replacement of the ice plant and rink slab in the hockey arena and partial replacement of the roof of the Student Development Center. The Series 2003 bonds refunded were called for redemption on April 1, 2013 and the Series 2004 bonds refunded were called for redemption on April 1, 2013 and the Series 2004 bonds refunded were called for redemption on October 1, 2013 each at a redemption price equal to 100% of

the principal amount plus accrued interest. The 2012A bond series consists of serial bonds in the amount of \$19.75 million with maturities of October 2012 through October 2027 and interest rates ranging from 3.0% to 5.0%. The issue also included two term bonds totaling \$13.32 million. The first term bond in the amount of \$5.32 million matures in October 2030 and bears an interest rate of 4.0%. The second term bond in the amount of \$8.0 million matures in October 2034 and bears an interest rate of 5.0%. These bonds are secured by an irrevocable pledge of general revenues as provided in the indenture and have been rated as Aa3 by Moody's. Outstanding principal of \$22.08 million was refunded during fiscal year 2022 with the Series 2021 bonds.

During fiscal year 2013, the University's Board of Trustees approved the issuance of General Revenue Refunding Bonds, Series 2013A in the amount of \$14.265 million. The proceeds of this bond issue were used to refund Series 2006 bonds in the amount of \$2.715 million and to partially refund Series 2008 bonds in the amount of \$11.550 million. The Series 2006 bonds to be refunded were called for redemption on April 1, 2016 at a redemption price equal to 100% of the principal amount to be redeemed plus accrued interest to the redemption date. Principal and interest on the Series 2008 bonds will be paid at maturity on



October 1, 2016, October 1, 2017, and October 1, 2018, respectively. The advance refunding of the \$2.715 million of Series 2006 bonds and the \$11.550 million of Series 2008 bonds provided resources to purchase US government securities that were placed in an escrow fund for the purpose of generating resources for all future debt service payments on \$14.265 million of refunded debt. The 2013A bond series consists of serial bonds in the amount of \$8.325 million with maturities of October 2013 through October 2026 and interest rates ranging from 2.0% to 5.0%. The issue also included three term bonds totaling \$5.940 million. The first term bond in the amount of \$2.200 million matures in October 2025 and bears an interest rate of 3.0%. The third term bond in the amount of \$1.270 million matures in October 2028 and bears an interest rate of 3.25%. The third term bond in the amount of \$1.270 million matures in October 2028 and bears an interest rate of 4.0%. These bonds are secured by an irrevocable pledge of general revenues as provided in the indenture.

During fiscal year 2015, the University's Board of Trustees approved the issuance of General Revenue Bonds, Series 2015A in the amount of \$24.295 million. The proceeds of this bond issue were used to

renovate Daniell Heights student apartments, construct a fuel storage tank facility, renovate a campus dining facility, upgrade information technology and safety systems, renovate a chemical storage facility and undergraduate laboratories, and renovate bathrooms in the McNair Hall dormitory. The bonds bear fixed interest rates ranging from 2.0% to 5.0%, and mature at various dates from October 2016 through October 2045. All bonds of this issuance are rated A1 by Moody's; \$8.605 million of the issuance are insured and rated AA by Standard & Poor's.

During fiscal year 2022, the University's Board of Trustees approved the issuance of General Revenue Bonds Series 2021 in the amount of \$29.870 million. The proceeds of this bond issue were used to refund Series 2012A bonds and to construct the H-STEM Complex. Outstanding principal of the Series 2012A bonds refunded by the Series 2021 bonds amounted to \$22.08 million and had a call date of October 1, 2021. The present value of debt service savings resulting from the refunding totaled \$4.7 million. The Series 2021 bonds bear a fixed interest rates ranging from 4% to 5% and are comprised of serial and term bonds that mature on various dates with the latest date being October 1, 2051. These bonds are secured by an irrevocable pledge of general revenues as provided in the indenture and have been rated A1 by Moody's.



During fiscal year 2023, the University's Board of Trustees approved the issuance of General Revenue Bonds, Series 2023A in the amount of \$22.705 million and Series 2023B in the amount of \$5.525 million. The proceeds of the 2023A issuance were used to renovate classroom and lab space, replace an HVAC system, and construct a parking lot. The proceeds of the 2023B issuance were used to construct a high bay building used for research. The 2023A bonds are term bonds which mature on various dates from October 2023 to October 2052, bearing fixed interest rates ranging from 5.00% to 5.25%. The 2023B bonds are taxable and payable from October 2023 through October 2032, with fixed interest rates ranging from 4.81% to 5.18%. Both bond issuances are secured by an irrevocable pledge of University general revenues. All bonds of this issuance were rated A1 by Moody's and after the issuance of bond insurance by AGM, were rated AA by Standard & Poor's.



# **Direct Placement Debt Issuances**

During fiscal year 2020, the University's Board of Trustees approved the issuance of General Revenue Refunding Bonds Series 2020A in the amount of \$4.725 million. The Series 2020A bonds bear a fixed interest rate of 2.190% and mature on October 1, 2038. The proceeds of this bond issue were used to refund certain portions of the outstanding Series 2008 bond in the aggregate principal amount of \$4.670 million, maturing on October 1 of the years 2020 (4.375% interest rate), 2023 (4.500% interest rate), 2028 (4.750% interest rate), and 2038 (5.000% interest rate). The refunded Series 2008 bonds were called for redemption on June 8, 2020. These bonds are secured by an irrevocable pledge of general revenues as provided in the indenture.

During fiscal year 2021, the University's Board of Trustees approved the issuance of General Revenue Refunding Bonds Series 2020B in the amount of \$7.725 million. The Series 2020B bonds bear a fixed interest rate of 2.190% and mature on October 1, 2040. The proceeds of this bond issue were used to refund certain portions of the outstanding Series 2010A Bond maturing on October 1 of the years 2025, 2030, and 2040, in the aggregate principal of \$7.410 million. These bonds are secured by an irrevocable pledge of general revenues as provided in the indenture.

### PRINCIPAL AND INTEREST AMOUNTS DUE ON BONDED DEBT FOR FISCAL YEARS ENDING JUNE 30

	All Othe	er Debt	Direct Placement Debt		Tot		
Fiscal Year	Principal	Interest	Principal	Interest	Principal	Interest	Total Principal and Interest
2024	\$ 2,635,000	\$ 4,816,570	\$ 490,000	\$ 243,419	\$ 3,125,000	\$ 5,059,989	\$ 8,184,989
2025	2,755,000	4,691,011	510,000	232,469	3,265,000	4,923,480	8,188,480
2026	3,855,000	4,540,392	525,000	221,136	4,380,000	4,761,528	9,141,528
2027	4,030,000	4,353,135	545,000	209,419	4,575,000	4,562,554	9,137,554
2028	4,190,000	4,162,823	570,000	197,210	4,760,000	4,360,033	9,120,033
Total 5 years	17,465,000	22,563,931	2,640,000	1,103,653	20,105,000	23,667,584	43,772,584
2029 to 2033	23,915,000	17,589,109	3,110,000	788,950	27,025,000	18,378,059	45,403,059
2034 to 2038	20,560,000	11,547,304	3,725,000	417,360	24,285,000	11,964,664	36,249,664
2039 to 2043	14,740,000	7,387,841	1,885,000	54,696	16,625,000	7,442,537	24,067,537
2044 to 2048	13,015,000	4,010,600	-	-	13,015,000	4,010,600	17,025,600
2049 to 2053	10,625,000	1,298,763	-	-	10,625,000	1,298,763	11,923,763
Total bonded debt	\$100,320,000	\$ 64,397,548	\$11,360,000	\$ 2,364,659	\$ 111,680,000	\$ 66,762,207	\$ 178,442,207

# **Subscriptions**

The University obtains the right to use vendors' information technology software through various long-term contracts. Payments are generally fixed monthly, with certain variable payments not included in the measurement of the lease liability required based on uncertainty of future usage of the software.

Subscription asset activity of the University is included in Note 4.

Future principal and interest payment requirements related to the University's subscription liability at June 30, 2023 are as follows:

SCHEDULED MATURITIES OF SUBSCRIPTIONS											
FOR FISCAL YEARS ENDING JUNE 30											
Fiscal Year	Principal	Interest To									
2024	\$ 1,033,759	\$ 63,020	\$ 1,096,779								
2025	716,734	18,002	734,736								
2026	160,716	5,453	166,169								
2027	46,769	195	46,964								
Total	\$ 1,957,978	\$ 86,670	\$ 2,044,648								

# (8) INSURANCE

# Self-Insurance

The University is essentially self-insured for medical benefits claims, unemployment compensation, and workers' compensation. Stop-loss coverage has been purchased by the University for its medical and workers' compensation coverages. Liabilities for estimates of losses retained by the University under self-insurance programs have been determined and accrued for and included in insurance and benefit reserves on the accompanying Statements of Net Position. There were no claims or settlements that exceeded insurance coverage in the last three years. Changes in the estimated liability for self-insured plans during the past three fiscal years are as follows:

# SELF-INSURED CLAIMS LIABILITY

	2023	2022	2021
Balance, beginning of year	\$ 1,357,943	\$ 1,434,353	\$ 1,332,756
Claims incurred, including changes in estimates	18,526,472	17,350,905	17,224,915
Less: claims paid	(18,552,384)	(17,427,315)	(17,123,318)
Balance, end of year	\$ 1,332,031	\$ 1,357,943	\$ 1,434,353

# Liability and Property Insurance

The University participates with eleven other Michigan universities in the Michigan Universities Self-Insurance Corporation ("MUSIC"). MUSIC's purpose is to provide indemnity to members against auto, comprehensive general liability, errors and omissions, and property losses commonly covered by insurance. Premiums are assessed annually for (1) insurance risks retained by MUSIC, (2) costs related to excess coverage, and (3) general and administrative expenses. MUSIC also provides risk-management and loss control services and programs.

Loss coverages are structured on a three-layer basis with each member retaining a portion of its losses, MUSIC covering the second layer of losses, and commercial carriers covering the third layer.

Comprehensive general liability coverage is provided on a per-occurrence basis; errors and omissions coverage is provided on a claims-made basis. In the event of excess assets, MUSIC will return the surplus, credit the surplus toward future payments, or provide for increased coverage. Recommended reserves for both MUSIC and each member are actuarially determined on an annual basis. MUSIC will be self-sustaining through member payments and will purchase commercial coverage for claims in excess of established annual limits for each line of coverage. Members may fund their respective reserves as they deem appropriate.

# (9) RETIREMENT BENEFITS

# **Retirement Plans**

The University has a defined contribution retirement plan and a defined benefit retirement plan for qualified employees. The defined benefit plan is discussed in note 10.

# **Defined Contribution Plan**

The University has a defined contribution plan with Teachers Insurance and Annuities Association (TIAA) and Fidelity. Any regular employee who works in a position of half-time or greater is eligible to participate in the defined contribution plan.

Plan participants maintain individual investment accounts with TIAA and/or with Fidelity Investments. At June 30, 2023, the University had approximately 3,500 plan participants. Employees may also deposit



supplemental retirement funds into 403(b) and/or 457(b) plans up to permissible limits. The University contributes a specified percentage of employee wages up to 8.5%, and has no liability beyond its own contribution. University contributions to this program are summarized in the Retirement Plan Contributions table for the years ended June 30.

# DEFINED CONTRIBUTION RETIREMENT PLAN CONTRIBUTIONS

	 2023	 2022
University contributions to TIAA/Fidelity	\$ 8,338,424	\$ 7,427,307
Payroll covered under TIAA/Fidelity	\$ 108,630,402	\$ 106,603,530

# (10) MICHIGAN PUBLIC SCHOOLS EMPLOYEES' RETIREMENT SYSTEM

# **Defined Benefit Plan**

The University contributes to the Michigan Public Schools Employees Retirement System (MPSERS), a costsharing multi-employer pension plan administered by the State of Michigan Department of Management and Budget, Office of Retirement Services. Benefit provisions are established and may be amended by state statute. Due to State of Michigan House Bill HB4047, University employees hired after December 31, 1995 can no longer participate in this retirement plan, unless they were previously enrolled in the plan at the University or one of the other six universities that are part of MPSERS. The Office of Retirement Services (ORS) issues a publicly available financial report that includes financial statements and required supplementary information for MPSERS. That report can be found on the ORS website at michigan.gov/orsschools. In July 2015, ORS determined that MPSERS has two reporting units: universities and non-universities. ORS provided the universities a separate net pension liability and net other postemployment benefits liability/asset. Separate pension and OBEB information related to the universities reporting unit included in this plan is not available.

University participants are enrolled in one of multiple plans based on date of hire and certain voluntary elections. A summary of the pension plans offered by MPSERS is as follows:

Plan Name		Plan
	Plan Type	Status
Member Investment Plan (MIP)	Defined Benefit	Closed
Basic	Defined Benefit	Closed
Defined Contribution	Defined Contribution	Open

The MIP includes additional subgroups based on hire date. The MIP Fixed plan includes members hired prior to January 1, 1990. The MIP Graded plan includes members first hired from January 1, 1990 through December 31, 1995. The MIP Plus plan includes members first hired from July 1, 2008 through June 30, 2010. Members who initially enrolled in the MIP plan and made a voluntary election to contribute a higher rate are participants in the MIP 7% plan.

Members hired between July 1, 2010 and September 3, 2012 were enrolled in the *Pension* Plus plan. Members hired on or after September 4, 2012 are automatically enrolled in this plan unless an election is made to participate in the defined contribution plan. The plan includes a pension component as well as a savings component. Member contributions to the savings component are matched at a rate of 50% by the employer (up to a maximum of 1%) and invested in a 401(k) plan.

Effective February 1, 2013, members that initially enrolled in MIP were provided the option to convert to a defined contribution plan (*Basic 4%*). In these instances, any service credit accumulated under the defined benefit plan before February 1, 2013 is retained. For service performed after this date, the converted plan member receives 4% employer contributions to a personal 401(k) account.

A member first enrolling in MPSERS on or after September 4, 2012 may elect to enroll in the *defined contribution* plan. Employer and employee contribution rates and vesting requirements are consistent with the defined contribution component of the Pension Plus plan as described above.

# **Benefits Provided**

MPSERS provides retirement, death, disability and postemployment healthcare benefits to eligible participants. Retirement benefits are calculated as a percentage of the employee's final average compensation multiplied by the employee's years of service. All participants qualify for a benefit multiplier of 1.5% for the first 30 years of service. Certain benefit groups receive a reduced rate of 1.25% for service above 30 years. Disability benefits are calculated the same as regular service retirement. Participants are eligible to receive full retirement benefits upon reaching the age and years of service requirements below. Most plans offer additional options for early retirement if certain stipulations have been met. Voluntary contributions vest immediately.

Plan Name	Eligibility Based on Years of Service	Vesting
Member Investment Plan (MIP)	Age 46 with 30 years or age 60 with 10 years	10 years
Basic	Age 55 with 30 years or age 60 with 10 years	10 years
Defined Contribution		4 years

Benefit provisions of the postemployment healthcare plan are established by State statute, which may be amended. Public Act 300 of 1980, as amended, establishes eligibility and benefit provisions. Retirees have the option of health coverage, which through 2012, was funded on a cash disbursement basis. Beginning fiscal year 2013, it is funded on a prefunded basis. The System has contracted to provide the comprehensive group medical, prescription drug, dental and vision coverage for retirees and beneficiaries. A subsidized portion of the premium is paid by the System with the balance deducted from the monthly pension of each retiree healthcare recipient. For members who first worked before July 1, 2008, (Basic, MIP-Fixed, and MIP Graded plan members) the subsidy is the maximum allowed by statute. To limit future liabilities of Other Postemployment Benefits, members who first worked on or after July 1, 2008 (MIP-Plus plan members) have a graded premium subsidy based on career length where they accrue credit towards their insurance premiums in retirement, not to exceed the maximum allowable by statute. Public Act 300 of 2012 sets the maximum subsidy at 80% beginning January 1, 2013; 90% for those Medicare eligible and enrolled in the insurances as of that date. Dependents are eligible for healthcare coverage if they meet the dependency requirements set forth in Public Act 300 of 1980, as amended.

Public Act 300 of 2012 granted all active members of the MPSERS, who earned service credit in the 12 months ending September 3, 2012 or were on an approved professional services or military leave of absence on September 3, 2012, a voluntary election regarding their retirement healthcare. Any changes to a member's healthcare benefit are effective as of the member's transition date, which is defined as the first day of the pay period that begins on or after February 1, 2013.

Under Public Act 300 of 2012, members were given the choice between continuing the 3% contribution to retiree healthcare and keeping the premium subsidy benefit described above, or choosing not to pay the 3% contribution and instead opting out of the subsidy benefit and becoming a participant in the Personal Healthcare Fund (PHF), a portable, tax-deferred fund that can be used to pay healthcare expenses in retirement. Participants in the PHF are automatically enrolled in a 2% employer match into a 401(k) account. Members who selected this option stop paying the 3% contribution to retiree healthcare as of the day before their transition date, and their prior contributions were deposited into their 401(k) account.

# Contributions

Employer contributions to the plans are based on a percentage of covered payroll that has been actuarially determined as an amount that, when combined with employee contributions, is expected to finance the cost of benefits earned by employees during the year, with an additional amount to finance



any unfunded accrued liability. Member contributions are determined based on date of hire and the plan selected. Contribution rates are adjusted annually by the ORS.

Employers are required by Public Act 300 of 1980, as amended, to contribute amounts necessary to finance the coverage of active and retired members. Contribution provisions are specified by State statute and may be amended only by action of the State Legislature.

Employer OPEB contributions to the System are determined on an actuarial basis using the entry age normal actuarial cost method. Under this method, the actuarial present value of the projected benefits of each individual included in the actuarial valuation is allocated on a level basis over the service of the individual between entry age and assumed exit age. The portion of this cost allocated to the current valuation year is called the normal cost. The remainder is called the actuarial accrued liability. Normal cost is funded on a current basis. The unfunded (overfunded) actuarial accrued liability as of the September 30, 2019 valuation will be amortized over a 19-year period beginning October 1, 2019 and ending September 30, 2038.

The schedules below summarize the contribution rates in effect for fiscal years 2023 and 2022:

Benefit Structure	Member	Employer (10/1/20 to 9/30/21)	Employer (10/1/21 to 9/30/22)	Employer (10/1/22 to 9/30/23)		
Member Investment Plan (MIP)	3.00% - 7.00%	26.26%	26.38%	16.52%		
Basic	0.00% - 4.00%	26.26%	26.38%	16.52%		
Defined Contribution	0.00%	19.74%	19.86%	10.00%		
OPEB CONTRIBUTION RATES						

# PENSION CONTRIBUTION RATES

### Employer Employer Employer (10/1/20 to(10/1/21 to(10/1/22 to**Benefit Structure** 9/30/21) 9/30/22) 9/30/23) Member Premium Subsidy 6.91% 6.79% 0.92% 3.00% Personal Healthcare Fund 0.00% 5.99% 5.87% 0.00%

The University's contributions to MPSERS under all pension plans as described above for the years ended June 30, 2023 and 2022 were \$37,573,883 and \$15,861,576, respectively. The University's required and actual pension contributions include an allocation of \$33,832,046 and \$11,039,481 in revenue received from the State of Michigan and remitted to the System to fund the MPSERS unfunded actuarial accrued liability (UAAL) stabilization rate for the year ended June 30, 2023 and 2022, respectively. The University's contributions to the OPEB plan from the University were \$967,990 and \$1,513,665 for the years ended June 30, 2023 and June 30, 2022, respectively.

# Pension Liabilities, Pension Expense, and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions

At June 30, 2023 and 2022, the University reported a liability of \$36.025 million and \$63.411 million respectively, for its proportionate share of the net pension liability as calculated for the universities reporting unit of MPSERS. The net pension liability was measured as of September 30, 2022 and 2021, and the total pension liability used to calculate the net pension liability was determined by an actuarial valuation rolled forward from September 30, 2020 and 2019, respectively. The University's proportion of the net pension liability was based on a projection of the University's long-term share of contributions to the

pension plan relative to the projected contributions of all participating universities, actuarially determined. At September 30, 2022, 2021 and 2020, the University's proportion (as calculated by MPSERS) was 11.268835%, 11.28598% and 11.32182%, respectively. Subsequent to the University's year-end on July 20, 2023, Michigan Act No. 106 of Public Acts of 2023 was approved. The Act's Section 236h provides total appropriations of \$200 million for all universities to pay MPSERS towards the unfunded pension liability. This additional appropriation and subsequent payment to MPSERS occurred after the September 30, 2022 measurement date and will significantly reduce the net pension liability for the University's June 30, 2024 fiscal year-end.

For the years ended June 30, 2023 and 2022, the University recognized pension expense of \$12.337 million and \$1.198 million, respectively. At June 30, the University reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	2023		
	Deferred Outflows of Resources	Deferred Inflows of Resources	
Net difference between projected and actual earnings on pension plan investments	\$ 1,927,303	\$ -	
Total amortized deferrals	1,927,303		
University contributions subsequent to the measurement			
date	3,135,615		
Total	\$ 5,062,918	<u>\$</u> -	
	2022		
	2022 Deferred Outflows of Resources	Deferred Inflows of Resources	
Net difference between projected and actual earnings	Deferred Outflows of	Deferred Inflows of Resources	
on pension plan investments	Deferred Outflows of	Deferred Inflows of Resources \$ 8,537,664	
on pension plan investments Total amortized deferrals	Deferred Outflows of Resources	Deferred Inflows of Resources	
on pension plan investments Total amortized deferrals University contributions subsequent to the measurement	Deferred Outflows of Resources \$ -	Deferred Inflows of Resources \$ 8,537,664	
on pension plan investments Total amortized deferrals	Deferred Outflows of Resources	Deferred Inflows of Resources \$ 8,537,664	

The amount of deferred outflows of resources related to University contributions subsequent to the measurement date will be recognized as a reduction in the net pension liability in the next year. The \$11,039,481 reported as deferred inflows of resources as of June 30, 2022, resulting from the pension portion of state aid payments received pursuant to the UAAL payment, was recognized as state appropriations revenue for the year ended June 30, 2023. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to pension will be recognized in pension expense as follows:

Fiscal Year	Amount
2024	179,250
2025	(49,758)
2026	(246,085)
2027	2,043,896
Total	\$ 1,927,303



## OPEB Asset or Liability, OPEB Expense, and Deferred Outflows of Resources and Deferred Inflows of Resources Related to OPEB

At June 30, 2023 and 2022, the University reported an asset of \$4,226,637 and \$4,825,977 respectively, for its proportionate share of the MPSERS net OPEB liability/asset calculated for the universities reporting unit. The net OPEB liability was measured as of September 30, 2022 and 2021, and the total OPEB liability used to calculate the net OPEB liability was determined by an actuarial valuation rolled forward from September 2020 and 2019, respectively. The University's proportion of the net OPEB liability was determined by dividing each employer's statutorily required OPEB contributions to the system during the measurement period. At September 30, 2022, 2021 and 2020, the University's proportion was 11.28950%, 11.25511% and 11.29115%, respectively.

For the years ended June 30, 2023 and June 30, 2022, the University recognized OPEB recoveries of (\$981,949) and (\$5,318,381), respectively. At June 30, the University reported deferred outflows of resources and deferred inflows of resources related to OPEB from the following sources:

	2023	
	Deferred Outflows of Resources	Deferred Inflows of Resources
Net difference between projected and actual earnings on OPEB plan investments Total amortized deferrals	\$ <u>346,465</u> 346,465	\$
University contributions subsequent to the measurement date Total	766,354 \$ 1,112,819	<u>-</u> \$ -

	2022		
	Deferred Outflows of Resources	Deferred Inflows of Resources	
Net difference between projected and actual earnings on OPEB plan investments Total amortized deferrals University contributions subsequent to the measurement	<u>\$ -</u> -	\$ 2,760,822 2,760,822	
date Total	1,321,292 \$ 1,321,292	\$ 2,760,822	



University contributions subsequent to the measurement date reported as deferred outflows of resources related to OPEB will be recognized as a reduction of the net OPEB liability in the year ended June 30, 2023. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to OPEB will be recognized in OPEB expense as follows:

Fiscal Year	Amount
2024	(26,635)
2025	(81,765)
2026	(144,330)
2027	599,195
Total	\$ 346,465

#### **Actuarial Assumptions**

The total pension and OPEB liabilities measured as of September 30, 2022 are based on the results of an actuarial valuation date of September 30, 2021 and rolled forward using generally accepted actuarial procedures.

Actuarial Cost Method	Entry age, normal cost
Assumed rate of return	6.00%, net of investment expenses based on the groups (Pension) 6.00%, net of investment expenses based on the groups (OPEB)
Salary increases	2.75%11.55%, including wage inflation of 2.75%
Cost-of-Living Pension Adjustment	3% Annual Non-Compounded for MIP members
Healthcare cost trend rate	Pre-65: 7.75% Year 1 graded to 3.5% Year 15; 3.0% Year 120 Post-65: 5.25% Year 1 graded to 3.5% Year 15; 3.0% Year 120
Mortality basis:	
Retirees	RP-2014 Male and Female Healthy Annuitant Mortality Tables, scaled by 82% for males and 78% for females and adjusted for mortality improvements using projection scale MP-2017 from 2006.
Active	RP-2014 Male and Female Employee Annuitant Mortality Tables, scaled 100% and adjusted for mortality improvements using projection scale MP-2017 from 2006.
	Масто





The total pension and OPEB liabilities measured as of September 30, 2021 are based on the results of an actuarial valuation date of September 30, 2020 and rolled forward using generally accepted actuarial procedures.

Actuarial Cost Method	Entry age, normal cost
Assumed rate of return	6.80%, net of investment expenses based on the groups (Pension) 6.95%, net of investment expenses based on the groups (OPEB)
Salary increases	2.75%11.55%, including wage inflation of 2.75%
Cost-of-Living Pension Adjustment	3% Annual Non-Compounded for MIP members
Healthcare cost trend rate	7.50%, year 1 graded to 3.5% year 12
Mortality basis: Retirees	RP-2014 Male and Female Healthy Annuitant Mortality Tables, scaled by 82% for males and 78% for females and adjusted for mortality improvements using projection scale MP-2017 from 2006.
Active	RP-2014 Male and Female Employee Annuitant Mortality Tables, scaled 100% and adjusted for mortality improvements using projection scale MP-2017 from 2006.

#### Long-Term Expected Return on Plan Assets

The long-term expected rate of return on pension plan and OPEB plan investments was determined using a building-block method in which the best-estimate of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. The target allocation and best estimates of arithmetic real rates of return for each major asset class are summarized in the following table:

	Septemb	
Asset Class	Target Allocation	Long-Term Expected Real Rate of Return
Domestic equity pools	25.0%	5.1%
Private equity pools	16.0%	8.7%
International equity pools	15.0%	6.7%
Fixed income pools	13.0%	-0.2%
Real estate and infrastructure pools	10.0%	5.3%
Absolute return pools	9.0%	2.7%
Real return/opportunistic pools	10.0%	5.8%
Short-term investment pools	2.0%	-0.5%
Total	100.0%	-

Long-term rates of return are net of administrative expenses and inflation of 2.2%.

	September 30, 2021		
Asset Class	Target Allocation	Long-Term Expected Real Rate of Return	
Domestic equity pools	25.0%	5.4%	
Private equity pools	16.0%	9.1%	
International equity pools	15.0%	7.5%	
Fixed income pools	10.5%	-0.7%	
Real estate and infrastructure pools	10.0%	5.4%	
Absolute return pools	9.0%	2.6%	
Real return/opportunistic pools	12.5%	6.1%	
Short-term investment pools	2.0%	-1.3%	
Total	100.0%		

Long-term rates of return are net of administrative expenses and inflation of 2.0%.

#### **Rate of Return**

For the fiscal year ended September 30, 2022, the annual money-weighted rate of return on pension plan investment, net of pension plan investment expense, was (4.18)%. For OBEP plan investment, the annual money-weighted rate of return was (4.99)%, net of OBEP plan investment expense.

#### **Discount Rate**

The discount rates used to measure the total pension liability for June 30, 2023 and 2022 were 6.00% and 6.80%, respectively. Discount rates of 6.00% and 6.95% were used to measure the total OPEB liability for June 30, 2023 and 2022, respectively. This discount rate was based on the long-term expected rate of return on pension and OPEB plan investments of 6.00%. The projection of cash flows used to determine the discount rate assumed that plan member contributions will be made at the current contribution rate and that the University's contributions will be made at contractually required rates, actuarially determined. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current active and inactive employees. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension and OPEB liabilities.

#### Sensitivity of the Net Pension Liability to Changes in the Discount Rate

The following presents the net pension liability of the University, calculated using discount rates of 6.00% for fiscal years 2023 and 2022, as well as what the University's net pension liability would be if it were calculated using a discount rate that is 1% lower or 1% higher than the current rate:

NET PENSION LIABILITY Current 1% Decrease Discount Rate 1% Increase Fiscal Year (5.00%) (6.00%) (7.00%)				
Current 1% Decrease Discount Rate 1% Increase Fiscal Year (5.80%) (6.80%) (7.80%)				
2022	\$ 76,188,276	\$ 63,410,817	\$ 52,502,576	



#### Sensitivity of the Net OPEB Asset or Liability to Changes in the Discount Rate

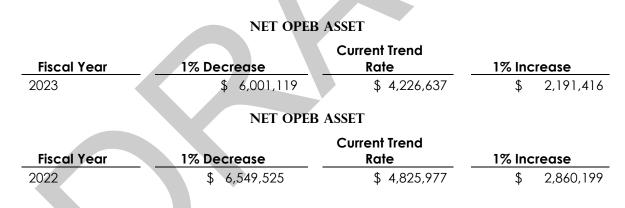
The following presents the University's net OPEB asset or liability calculated using discount rates of 6.00% and 6.95% for fiscal years ended June 30, 2023 and 2022, as well as what the University's net OPEB asset or liability would be if it were calculated using a discount rate that is 1 percentage point lower or 1 percentage point higher:

#### NET OPEB ASSET

Fiscal Year	1% DecreaseCurrent Discount(5.00%)Rate (6.00%)		1% Increase (7.00%)		
2023	\$ 2,261,114	\$ 4,226,637	\$ 5,896,314		
NET OPEB ASSET					
<b>-</b>	1% Decrease	Current Discount	1% Increase		
Fiscal Year	(5.95%)	Rate (6.95%)	(7.95%)		
2022	\$ 2,953,088	\$ 4,825,977	\$ 6,429,136		

#### Sensitivity of the Net OPEB Asset or Liability to Healthcare Cost Trend Rate

The following presents the University's proportionate share of the net OPEB asset or liability calculated using assumed trend rates, as well as what the University's proportionate share of net OPEB asset or liability would be if it were calculated using a trend rate that is 1 percentage point lower or 1 percentage point higher:



#### Pension and OPEB Plan Fiduciary Net Position

Detailed information about the plan's fiduciary net position is available in the separately issued MPSERS financial statements available on the State of Michigan Office of Retirement Services website at www.michigan.gov/orsschools.

#### (11) OTHER POSTEMPLOYMENT BENEFIT PLAN

#### **Plan Description**

The University offers postemployment benefits to its retirees through a single-employer plan, administered by the University. The University offers health coverage to its retirees and their covered dependents. The plan provides health, dental, and vision insurance benefits to eligible participants. To be eligible, a retiree from the University must be at least 65 years old with at least 10 years of service or his or her years of service plus age must be equal to, or greater than, 80. Retirees are responsible for the full cost of insurance premiums which are set at COBRA rates. Prior to January 1, 2014, the University subsidized the insurance premium costs for retirees. The phasing-out of subsidies for new retirees occurred from January

1, 2007 to December 31, 2013. The OPEB liability recognized by the University is associated with retirees and covered dependents who continue to receive subsidized premiums.

#### Contributions

The contribution requirements of the plan members are established annually by the University. The required contribution is based on annual projected pay-as-you go financing requirements. Prior to 2007, the University utilized its COBRA rates as the full cost value of early retiree medical and dental benefits. Depending upon specific fiscal years of retirement, these non-Medicare retirees paid a certain percentage of this COBRA rate. Even for those early retirees where their contribution requirement was 100% of the COBRA rate, there was an implied subsidy as the age-adjusted full cost for pre-Medicare eligible retirees is significantly higher. Beginning in 2007, the University began a seven year phase out of the subsidy implied when utilizing the COBRA rates so that starting on January 1, 2014 retiree contributions were established on the expected full cost of the retiree medical and dental plans (pre-Medicare and Medicare eligible populations). The University has not prefunded any of its OPEB liability, nor does it presently intend to prefund its OPEB liability. Therefore, as of June 30, 2023, the most recent measurement date, the Plan was 0% funded.



At June 30, 2023 and 2022, the University reported a liability of \$2,548,090 and \$2,730,898 respectively, for its Retiree Benefit Program. The net OPEB liability was measured as of June 30, 2023, rolled forward from a valuation date of July 1, 2022. Changes in the OPEB liability for the years ended June 30 are summarized as follows:

	 2023	 2022
Balance, beginning of year	\$ 2,730,898	\$ 5,045,999
Interest cost	92,146	106,043
Differences between expected and actual experience	-	(1,115,278)
Changes in assumptions	(16,878)	(1,031,161)
Benefit payments	 (258,076)	 (274,705)
Balance, end of year	\$ 2,548,090	\$ 2,730,898



On the above, there were no benefit changes. The decrease in the liability from June 30, 2022 to June 30, 2023 is due to the increase in the assumed discount rate from 3.54% as of June 30, 2022 to 3.65% as of June 30, 2023.

The number of plan participants consisted of the following:

	June 30, 2023	June 30, 2022
Retirees younger than 65 years old	-	-
Retirees 65 years old or older	82	82
Total inactive participants	82	82

#### Sensitivity of the Net OPEB Liability to Changes in Discount Rate and Healthcare Cost Trend Rate

The following presents the University's net OPEB liability calculated using a discount rate of 3.65% and 3.54% for fiscal years ended June 30, 2023 and 2022, respectively, as well as what the University's net OPEB liability would be if it were calculated using a discount rate that is 1 percentage point lower or 1 percentage point higher:

#### NET OPEB LIABILITY

Fiscal Year	1% Decrease	Current Discount	1% Increase
	(2.65%)	Rate (3.65%)	(4.65%)
2023	\$ 2,710,082	\$ 2,548,090	\$ 2,404,303
Fiscal Year	1% Decrease	Current Discount	1% Increase
	(2.54%)	Rate (3.54%)	(4.54%)
2022	\$ 2,916,397	\$ 2,730,898	\$ 2,566,655

The following presents the University's net OPEB liability calculated using assumed healthcare trend rates, as well as what the University's net OPEB liability would be if it were calculated using a discount rate that is 1 percentage point lower or 1 percentage point higher:

#### NET OPEB LIABILITY

<b></b> 1.7	177 5	Current Trend	107.1
Fiscal Year	1% Decrease	Rate	1% Increase
2023	\$ 2,356,928	\$ 2,548,090	\$ 2,760,267
		Current Trend	
Fiscal Year	1% Decrease	Rate	1% Increase
2022	\$ 2,541,804	\$ 2,730,898	\$ 2,940,580

#### **Actuarial Assumptions**

	June 30, 2023	June 30, 2022
Actuarial Cost Method	Entry Age, Normal	Entry Age, Normal
Valuation Date	July 1, 2021	July 1, 2021
CPI	3.00%	3.00%
Wage Inflation Rate	Since the population is inactive, a wage inflator is not necessary.	Since the population is inactive, a wage inflator is not necessary.
Healthcare Cost Trend	S&P Healthcare Economic Index and internal trend guidance	S&P Healthcare Economic Index and internal trend guidance
Mortality	PRI-2012 Mortality, projected generational from a central year of 2012 with Scale MP-2021	PRI-2012 Mortality, projected generational from a central year of 2012 with Scale MP-2021

#### SUMMARY OF ACTUARIAL ASSUMPTIONS

#### **Discount Rate**

A discount rate of 3.65% was used to measure the total OPEB liability for June 30, 2023 (3.54% for June 30, 2022). The discount rate was determined using the interest rate reported under the 20-YEAR Municipal Bond Index on the last Thursday prior to the measurement date.

#### **Retirement Supplemental Voluntary Plan**

The University has a Retirement Supplemental Voluntary Plan (RSVP) to facilitate the voluntary retirement of eligible employees. The RSVP is not an early retirement program. The decision to retire is left to the discretion of the individual employee and remains entirely voluntary. However, if an employee decides to retire, the RSVP provides several options upon retirement: a monetary option; a phased retirement option; a combination of the monetary and phased retirement options; and a program for employment after retirement. The University recognizes the related costs in the year the employee decides to retire. There was no RSVP liability at June 30, 2023 and 2022.

#### (12) COMMITMENTS AND CONTINGENCIES

The University has internally funded reserves for certain employee benefits. Accrued liabilities are generally based on actuarial valuations and represent the present value of unpaid expected claims, including estimates of claims incurred but not reported.

The University receives grants and other forms of reimbursement from various federal and state agencies. These activities are subject to audit by agents of the funding authority, the purpose of which is to ensure compliance with conditions precedent to providing such funds. University administration believes there is no liability for reimbursement which may arise as the result of audits.

Certain institution facilities, including the Great Lakes Research Center, have been financed in part by State Building Authority (SBA) bond issuances, which are secured by a pledge of rentals to be received by the State of Michigan pursuant to an arrangement between SBA, the State of Michigan, and the Institution. While the SBA bonds are outstanding, the SBA will hold title to the respective building, although the University has capitalized the building and pays all operating and maintenance costs. Once the SBA bonds are fully paid, the SBA will transfer title of the building to the institution.

The University received approval for the construction of the H-STEM Engineering and Health Technologies Complex from the State Building Authority in December of 2020. The total cost will be \$53,100,000 with the State Building Authority share of \$29,699,800, the State General Fund share of \$200, and the University share of \$23,400,000. The H-STEM Complex is on schedule to be operational in the spring of 2024.

In the normal course of its activities, the University is a party in various legal actions. Although some actions have been brought for large amounts, the University has not experienced any significant losses or



costs. The University and its legal counsel are of the opinion that the outcome of asserted and unasserted claims outstanding will not have a material effect on the financial statements.

#### (13) FUNCTIONAL CLASSIFICATION OF OPERATING EXPENSES

The University's operating expenses by functional classification were as follows for years ended June 30:

#### OPERATING EXPENSES BY FUNCTIONAL CLASSIFICATION

		2023	2022
Instruction	\$	72,434,387	\$ 63,503,367
Research		78,635,226	67,515,569
Public service		12,687,152	9,935,341
Academic support		25,928,148	23,709,211
Student services		19,166,852	15,254,827
Institutional support		22,405,236	20,145,820
Operations and maintenance of plant		17,229,588	14,540,735
Student financial support		13,814,036	19,381,790
Departmental activities		8,758,759	6,193,379
Student residents		8,545,966	6,671,888
Depreciation		16,457,358	14,318,065
Total	\$	296,062,708	\$ 261,169,992



## REQUIRED SUPPLEMENTARY INFORMATION

#### MPSERS Cost-sharing Multiple Employer Plan

#### SCHEDULE OF THE UNIVERSITY'S PROPORTIONATE SHARE OF THE NET PENSION LIABILITY (PLAN YEAR OCTOBER 1 - SEPTEMBER 30)

	University's prop net pensior			University's proportionate share of the net pension	Plan fiduciary net position as a
	As a percentage	Amount	Iniversity's rered payroll	liability as a percentage of its covered payroll	percentage of the total pension liability
2022	11.26835%	\$36,025,076	\$ 25,473,000	141.42%	74.39%
2021	11.28598%	\$63,410,817	\$ 24,974,000	253.91%	52.26%
2020	11.32182%	\$77,330,320	\$ 24,484,000	315.84%	43.07%
2019	11.27592%	\$75,502,509	\$ 24,004,000	314.54%	44.24%
2018	11.24088%	\$71,833,414	\$ 23,533,179	305.24%	45.87%
2017	11.26247%	\$64,788,673	\$ 23,879,000	271.32%	47.42%
2016	11.20220%	\$62,759,225	\$ 8,943,572	701.72%	46.77%
2015	10.00520%	\$54,888,547	\$ 9,118,081	601.97%	47.45%
2014	9.64907%	\$36,194,241	\$ 9,156,216	252.97%	63.00%

#### SCHEDULE OF UNIVERSITY PENSION CONTRIBUTIONS (FISCAL YEAR JULY 1 - JUNE 30)

	requ	ontractually vired pension ontributions	re C	ontributions in lation to the ontractually required contribution	de	ntribution eficiency excess)	Un	iversity's covered payroll	Contributions as a percentage of covered payroll
2023	\$	6,804,792	\$	6,804,792	\$	-	\$	25,855,095	26.32%
2022	\$	6,519,482	\$	6,519,482	\$	-	\$	25,348,610	25.72%
2021	\$	5,735,218	\$	5,735,218	\$	-	\$	24,851,260	23.08%
2020	\$	5,635,665	\$	5,635,665	\$	-	\$	24,364,060	23.13%
2019	\$	5,683,916	\$	5,683,916	\$	-	\$	23,886,295	23.80%
2018	\$	4,919,399	\$	4,919,399	\$	-	\$	23,619,500	20.83%
2017	\$	4,283,370	\$	4,283,370	\$	-	\$	8,526,091	50.24%
2016	\$	4,150,666	\$	4,150,666	\$	-	\$	8,606,261	48.23%
2015	\$	3,395,404	\$	3,395,404	\$	-	\$	8,877,145	38.25%



#### SCHEDULE OF THE UNIVERSITY'S PROPORTIONATE SHARE OF THE NET OPEB LIABILITY (PLAN YEAR OCTOBER 1 - SEPTEMBER 30)

	University's prop (ass	ortion et) lial			University's proportionate share of the net OBEB (asset) liability as a	Plan fiduciary net position as a
	As a percentage		Amount	Jniversity's vered payroll	percentage of its covered payroll	percentage of the total OBEP liability
2022	11.28930%	\$	(4,226,637)	\$ 25,473,000	-16.59%	121.19%
2021	11.25511%	\$	(4,825,977)	\$ 24,974,000	-19.32%	123.91%
2020	11.29115%	\$	4,770,992	\$ 24,484,000	19.49%	77.20%
2019	11.29560%	\$	10,367,445	\$ 24,004,000	43.19%	61.07%
2018	11.29059%	\$	13,395,226	\$ 23,533,179	56.92%	51.90%
2017	11.22486%	\$	15,973,138	\$ 23,879,000	66.89%	44.11%

#### SCHEDULE OF UNIVERSITY OBEB CONTRIBUTIONS (FISCAL YEAR JULY 1 - JUNE 30)

	req	ntractually uired OBEP ntributions	re Ci	ontributions in lation to the ontractually required contribution	Contribution deficiency (excess)	Univ	rersity's covered payroll	Contributions as a percentage of covered payroll
2023	\$	1,525,418	\$	1,525,418	\$	\$	25,855,095	5.90%
2022	\$	1,535,302	\$	1,535,302	\$ -	\$	25,348,610	6.06%
2021	\$	1,497,010	\$	1,497,010	\$-	\$	24,851,260	6.02%
2020	\$	1,466,062	\$	1,466,062	\$-	\$	24,364,060	6.02%
2019	\$	1,465,359	\$	1,465,359	\$-	\$	23,886,295	6.13%
2018	\$	1,608,346	\$	1,608,346	\$-	\$	23,619,500	6.81%

#### Notes to Required Supplementary Information

The amounts presented for the fiscal year in the above Schedule of the University's Proportionate Share of the Net Pension and OPEB Liability were determined as of September 30 of the preceding year.

GASB 68 was implemented in fiscal year 2015 and GASB 75 was implemented in fiscal year 2018. These schedules are being built prospectively. Ultimately, 10 years of data will be presented.

#### **RSI** Covered – payroll

The employers' covered payroll to be reported in the requirement supplementary information is defined by GASB 82, Pension Issues – an amendment to GASB Statements No. 67, No. 68, and No. 73, as payroll on which contributions to a pension plan are based; and by GASB 85, Omnibus 2017, as payroll on which contributions to the OPEB plan are based. For university employers, covered payroll for both pension and OPEB is the greater of 1) university payroll on which contributions to the plan are based or 2) the required minimum payroll amount required by PA 136 of 2016. For non-university employers, covered payroll represents payroll on which contributions to both plans are based.

Changes of benefit terms: There were no changes of benefit terms for each of the reported plan years ended September 30.

Changes of assumptions:

**Michigan Public School Employees Retirement System (Pension) –** There were no significant changes of assumptions for each of the reported plan years ended September 30, except for the following:

**2022** – The discount rate and investment rate of return used in the September 30, 2022 actuarial valuation decreased by 0.80% percentage points.

**2019** – The discount rate used in the September 30, 2018 actuarial valuation decreased by 0.25% percentage points.

**2018** – The discount rate used in the September 30, 2017 actuarial valuation decreased by 0.45% percentage points. The valuation also includes the impact of an updated experience study for periods from 2012 to 2017.

**2017** – The discount rate used in the September 30, 2016 actuarial valuation decreased by 0.50% percentage points.

Michigan Public School Employees Retirement System (OPEB) – There were no significant changes of assumptions for each of the reported plan years ended September 30, except for the following:

**2022** – The discount rate and investment rate of return used in the September 30, 2022 actuarial valuation decreased by 0.95% percentage points.

**2021** – The healthcare cost trend rate used in the September 30, 2020 actuarial valuation increased by 0.75% for members under 65 and decreased by 1.75% for members over 65, in addition, actual per person health benefit costs were lower than projected.

**2020** – The healthcare cost trend rate used in the September 30, 2019 actuarial valuation decreased by 0.50% percentage points and actual per person health benefit costs were lower than projected. This reduced the plan's total OEB liability by \$1.8 billion in 2020, including a reduction of \$42 million for the university employer portion of the total OPEB liability.

**2019** – The discount rate used in the September 30, 2018 actuarial valuation decreased by 0.20% percentage points. The valuation also includes the impact of an updated experience study for periods from 2012 to 2017.

**2018** – The discount rate used in the September 30, 2017 actuarial valuation decreased by 0.35% percentage points. The valuation also includes the impact of an updated experience study for periods from 2012 to 2017.





#### University's Single Employer Plan

SCHEDULE OF CHANGES IN	п	UNIVERSI	13	IUTAL OPE	D LI	ADILITI AN	ELATED IN	TUK	MATION	
		2023		2022		2021	2020		2019	2018
Plan fiduciary net position, beginning of year	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -
University contributions		258,076		274,705		441,054	436,592		449,629	435,886
Participant contributions		-		-		-	182,800		202,321	200,805
Benefit payments		(258,076)		(274,705)		(441,054)	 (619,392)		(651,950)	 (636,691)
Plan fiduciary net position, end of year	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -
Net OPEB liability	\$	2,548,090	\$	2,730,898	\$	5,045,999	\$ 5,445,459	\$	6,019,259	\$ 6,077,123
Plan fiduciary net position as a percentage										
of net OPEB liability		-		-		-	-		-	-
University's covered payroll*		-		-		-	-		-	-
Net OPEB liability as a percentage of covered payroll		N/A		N/A		N/A	N/A		N/A	N/A

#### SCHEDULE OF CHANGES IN THE UNIVERSITY'S TOTAL OPEB LIABILITY AND RELATED INFORMATION

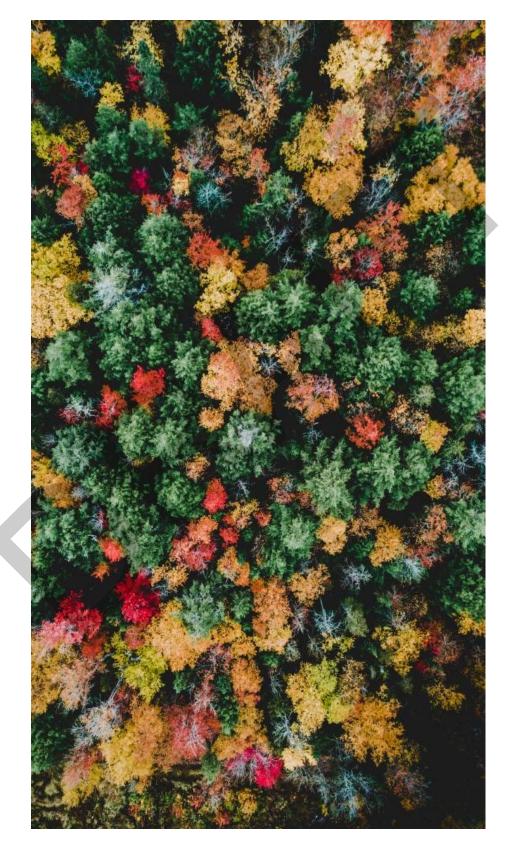
\* No active employees are covered, thus there is no employee payroll.

Discount rates used in determining the total reported liability for other post employment benefits were 3.65%, 3.54% 2.16%, 2.21%, 3.50%, and 3.87% at the measurement dates of June 30, 2023, 2022, 2021, 2020, 2019, and 2018, respectively.

GASB 75 was implemented in fiscal year 2018. These schedules are being built prospectively. Ultimately, 10 years of data will be presented.



## SUPPLEMENTARY INFORMATION



#### 

				FOR THE Y	<b>FAR ENDEL</b>	FOR THE YEAR ENDED JUNE 30, 2023	~					
				Retirement &	Expendable	Total Current		~	Michigan Tech			
	General	Designated	Auxiliary	Insurance	Restricted	Funds	Student Loan	Plant	Fund	Eliminations	2023	2022
Revenues												
Operating revenues												
Student tuition and fees, net	\$ 159,083,607	\$ 71,350	\$ 1,271,612	•	\$ 21,373	\$ 160,447,942	\$	1	•	\$ (54,174,620)	\$ 106,273,322	\$ 102,157,014
Federal grants and contracts	40,519	•	I	1	39,441,768	39,482,287	(1,261,180)	ı	I	1	38,221,107	35,255,011
State and local grants and contracts	1	-	-		5,794,903	5,794,903					5,794,903	4,828,756
Nongovernmental grants and contracts	1	1			25,253,316	25,253,316	'	ı	I	ı	25,253,316	23,927,723
Indirect cost recoveries	18,572,776	1	1	-	(18,572,776)	,	,	,	1	,	,	,
Educational activities	401.167	3.788.177	904.989	(83.577)	796,110	5.806.866	488	2.500	I	,	5.809.854	4.892.474
Departmental activities	59.594	117 442	10930938	-	96	11,108,070		50.901		,	11.158.971	9 475 834
Student residence fees net			30,005,561			30,005,561	,	16.818	,	(10,162,767)	19859612	19 726 245
Total operating revenues	178 157 663	3 976 969	43 113 100	(83.577)	52 734 790	277 898 945	(1 260 692)	70.219	.	(64.337.387)	212371.085	200 263 057
Expenses												
s alaries and wages	93,610,941	9,034,971	10,077,738	3,836,262	/18'458'57	147,399,729					142,399,729	9/0,9/2,451
Fringe benefits	37,008,110	2,551,468	3,117,718	601,719	6,752,199	50,031,214		'	ı	'	50,031,214	28,380,291
Supplies and services	20,012,804	9,119,956	18,696,158	1,309,325	20,908,531	70,046,774	467,574	42,745,555	10,574,539	(55,239,899)	68,594,543	60,731,662
Student financial support	62,400,431	908,917	20,000	4,185	12,502,213	75,835,746		'	3,567,901	(67,905,258)	11,498,389	16,946,785
Utilities	4,276,209	232,790	2,532,065	1	28,721	7,069,785		11,690	I	I	7,081,475	6,516,613
Depreciation	'	1	1	-		-	-	16,457,358	1	,	16,457,358	14,318,065
Total operatina expenses	217,308,495	21.848.102	34,443,679	5,751,491	66,031,481	345,383,248	467,574	59.214.603	14,142,440	(123,145,157)	296.062.708	261,169,992
Onerching (loss) income	(30 150 832)	(17 871 133)	8 449 471	15 835 0481	5 835 0481 (13 204 601)	(47 484 303)	(1 728 244)	(50 144 384)	(14 142 440)	58 807 770	(83 401 423)	(40 004 035)
					1	(000/202/10)		(1000/111 / Vol				(001/001/00)
Net transfers (out) in	(19,838,102)	15,668,822	(9,876,716)	(6,904,259)	1,408,074	(19,542,181)	(244,886)	19,787,067	'	•		•
Nonoperating revenues (expenses)												
Federal Pell grants	ı	I	I	I	4,944,840	4,944,840	-	1	I	1	4,944,840	5,031,356
Federal grants, other		ı	ı		ı	-	T	1,236,195	-		1,236,195	529,047
Federal coronavirus relief funds	'	'	1	'	'			ı	-		'	12,420,301
State appropriations	96,816,078	'	1	'	'	96,816,078			1		96,816,078	53,337,200
Gifts	3,692,813	2,796,684	482,339	I	5,032,083	12,003,919	T	T	9,651,844	(11,733,903)	9,921,860	10,532,471
Investment return (loss)	1,151,553	ı	1	2,064,160	548	3,216,261	342,439	(174,059)	9,780,395	I	13,165,036	(7,540,534)
Interest on capital asset-related debt	1	ı	1	I	I		1	(4,061,359)		1	(4,061,359)	(3,551,392)
Loss on disposal of capital assets	1	ı	1	I	I		1	I	1	(281,228)	(281,228)	(327,947)
Net nonoperating revenues (expenses)	101,660,444	2,796,684	482,339	2,064,160	9,977,471	116,981,098	342,439	(2,999,223)	19,432,239	(12,015,131)	121,741,422	70,430,502
Income (loss) before other revenues	42,671,510	594,373	(724,956)	(10,675,167)	(1,911,146)	29,954,614	(1,630,713)	(42,356,540)	5,289,799	46,792,639	38,049,799	9,523,567
Other revenues												
Capital grants and gifts						'		5,403,615	871,872	(633,349)	5,642,138	1 ,606,692
Gifts for permanent endowment purposes						'		T	5,761,062		5,761,062	5,385,720
Other revenues	'	'	'	'	'	'	'	•	118,612	'	118,612	110,393
Fund additions	'	'	'		ı	'	'	46,159,290	I	(46,159,290)	'	'
Total other revenues		•	•	•	•	•		51,562,905	6,751,546	(46,792,639)	11,521,812	7,102,805
Net increase (decrease) in net position	42,671,510	594,373	(724,956)	(10,675,167)	(1,911,146)	29,954,614	(1,630,713)	9,206,365	12,041,345	•	49,571,611	16,626,372
Net position, beginning of year	880.123	30,878,458	1 874 874	150 507 0011	1 2 0 7 0 2 1	110 037 7751	1001	150 701 170			24/ /5/ /02	
		00-00			100' /72' 01	10,00,000,21	710'070'0	0/+,102,001	7/7, 2/2		/00/700/040	215,020,055

## 2023 Financial Report

	General	Designated	Auxiliary	Retirement & Insurance	Expendable Restricted	Total Current Funds	Student Loan	Plant	Michigan Tech Fund	Eliminations	2023	2022
Revenues												
Operating revenues												
Student tuition and fees, net	\$ 159,083,607	\$ 71,350	\$ 1,271,612	•	\$ 21,373	\$ 160,447,942	\$	، ج	' \$	\$ (54,174,620)	\$ 106,273,322	\$ 102,157,014
Federal grants and contracts	40,519	-	1	T	39,441,768	39,482,287	(1,261,180)			'	38,221,107	35,255,011
State and local grants and contracts		•	1	1	5,794,903	5,794,903	'		'	'	5,794,903	4,828,756
Nongovernmental grants and contracts	1	•	1	•	25,253,316	25,253,316	1	1	1	'	25,253,316	23,927,723
Indirect cost recoveries	18,572,776	•	T	T	(18,572,776)		'	,	'	'	,	
Educational activities	401,167	3,788,177	904,989	(83,577)	796,110	5,806,866	488	2,500		'	5,809,854	4,892,474
Departmental activities	59,594	117,442	10,930,938	1	96	11,108,070	'	50,901		'	11,158,971	9,475,834
Student residence fees, net		-	30,005,561	-	-	30,005,561		16,818	-	(10,162,767)	19,859,612	19,726,245
T otal operating revenues	178,157,663	3,976,969	43,113,100	(83,577)	52,734,790	277,898,945	(1,260,692)	70,219	•	(64,337,387)	212,371,085	200,263,057
Expenses												
Operating expenses												
Instruction	68,314,182	2,554,047	T	1,764,839	143,429	72,776,497	I	(259,259)	I	(82,851)	72,434,387	63,503,367
Research	20,452,601	13,575,272	1	1,559,625	46,566,690	82,154,188	'	(419,327)	I	(3,099,635)	78,635,226	67,515,569
Public service	1,662,927	749,786	ı	222,804	9,747,417	12,382,934	'	,	I	304,218	12,687,152	9,935,341
Academic support	23,909,818	1,416,310	'	615,641	873	25,942,642		(288,095)		273,601	25,928,148	23,709,211
Student services	10,899,420	921,370	6,937,643	351,796	111,482	19,221,711		(159,299)	1	104,440	19,166,852	15,254,827
Institutional support	21,730,105	497,558	I	661,889	15,829	22,905,381		(301,524)	10,574,539	(10,773,160)	22,405,236	20,145,820
Student financial support	58,075,290	1	i	-	9,445,761	67,521,051	467,574	I	3,567,901	(57,742,490)	13,814,036	19,381,790
Operations and maintenance of plant	12,264,152	2,133,759	1	299,324	,	14,697,235		44,226,100	1	(41,693,747)	17,229,588	14,540,735
Sales and services of dept activities		'	'	1	ľ		'	(41,351)		8,800,110	8,758,759	6,193,379
Student residents		'	27,506,036	275,573		27,781,609		-		(19,235,643)	8,545,966	6,671,888
Depreciation		'	'	1	'	-		16,457,358		'	1 6,457,358	14,318,065
Total operating expenses	217,308,495	21,848,102	34,443,679	5,751,491	66,031,481	345,383,248	467,574	59,214,603	14,142,440	(123,145,157)	296,062,708	261,169,992
Operating (loss) income	(39,150,832)	(17,871,133)	8,669,421	(5,835,068)	(13,296,691)	(67,484,303)	(1,728,266)	(59,144,384)	(14,142,440)	58,807,770	(83,691,623)	(60,906,935)
Net transfers (out) in	(19,838,102)	15,668,822	(9,876,716)	(6,904,259)	1,408,074	(19,542,181)	(244,886)	19,787,067				
Nonoperating revenues (expenses)												
Federal Pell grants		1	ı		4,944,840	4,944,840	1		•		4,944,840	5,031,356
Federal grants, other		'			'	'	1	1,236,195	1	'	1,236,195	529,047
Federal coronavirus relief funds		'	1		'		'		1	1	'	12,420,301
State appropriations	96,816,078	1	1	1	'	96,816,078	1	I	ľ	1	96,816,078	53,337,200
Gifts	3,692,813	2,796,684	482,339	I	5,032,083	12,003,919	I	I	9,651,844	(11,733,903)	9,921,860	10,532,471
Investment return	1,151,553	'	'	2,064,160	548	3,216,261	342,439	(174,059)	9,780,395	•	13,165,036	(7,540,534)
Interest on capital asset-related debt		'	1	1		'	1	(4,061,359)	T	'	(4,061,359)	(3,551,392)
Loss on disposal of capital assets						-		-	-	(281,228)	(281,228)	(327,947)
Net nonoperating revenues (expenses)	101,660,444	2,796,684	482,339	2,064,160	9,977,471	116,981,098	342,439	(2,999,223)	19,432,239	(12,015,131)	121,741,422	70,430,502
Income (loss) before other revenues	42,671,510	594,373	(724,956)	(10,675,167)	(1,911,146)	29,954,614	(1,630,713)	(42,356,540)	5,289,799	46,792,639	38,049,799	9,523,567
Other revenues												
Capital grants and gifts		'	1	1		'		5,403,615	871,872	(633,349)	5,642,138	1,606,692
Gifts for permanent endowment purposes	1		i.	1	·		1	I	5,761,062		5,761,062	5,385,720
Other revenues	1	I	I	I	1	1	1	I	118,612	I	118,612	110,393
Fund additions	1							46,159,290		(46,159,290)		
Total other revenues	•	•	•	•	•		•	51,562,905	6,751,546	(46,792,639)	11,521,812	7,102,805
Net increase (decrease) in net position	42,671,510	594,373	(724,956)	(10,675,167)	(1,911,146)	29,954,614	(1,630,713)	9,206,365	12,041,345	•	49,571,611	16,626,372

# MICHIGAN TECHNOLOGICAL UNIVERSITY

**Michigan Technological** University 1885

## 2023 FINANCIAL REPORT



Michigan Technological University 1400 Townsend Drive Houghton, MI 49931-1295 mtu.edu

#### FY25 FIVE-YEAR STATE CAPITAL OUTLAY PLAN AND REQUEST

The FY25 Five-Year State Capital Outlay Plan and Request is required to be submitted to the State of Michigan this fall with Board of Trustees approval, and is included herein.

**RECOMMENDATION:** That the Board of Trustees approves the FY25 Five-Year State Capital Outlay Plan and FY25 Capital Project Request to be submitted to the State of Michigan.

	FY24 Five-Year State Capital Outlay Plan										
Rank	Project Name	Gross Sq. Ft. New	Gross Sq. Ft. Renovated	Total Project Costs (000's)	State Funds (000's)	Est. Const. Univ. Funds (000's)	FY Start/ FY End				
1	Center for Convergence and Innovation (CCI)	110,000	0	87,000	30,000	57,000	2024/2028				

#### Description

**1. Center for Convergence and Innovation (CCI):** The Center for Convergence Innovation (CCI) will help position Michigan's economy as a leader in digital transformation through cutting edge research, workforce development, and strategic partnerships. According to the Michigan Bureau of Labor, the state expects a 8.5 percent increase in workforce demand for business and financial operations, a 9.1 percent increase for management, and a 11.9 percent increase for computer and mathematical operations - cumulatively generating over 58,000 projected new jobs by 2030. Michigan Tech's College of Computing has grown greater than 10% in each of the past three years and remains on track to double in size by the end of the decade. Michigan Tech's College of Business grew by over 20% this year. Taken together, the two colleges account for more than 95% of MTU's growth this year and almost 25% of MTU's total graduate enrollment. In addition, both colleges have the highest enrollment in their history. The CCI also aligns with Michigan's "60x30" and economic prosperity goals by supporting innovations in computing, connectivity, sensorization, and business in this new age of digital transformation.

Congruent with the state's long-term economic transformation, the project will provide a place for existing business, data science, and computing programs to converge to spur new degree programs, entrepreneurial projects, outreach to businesses and communities, increased industry and government funding for research, and the development of a highly agile workforce prepared to implement digital transformation solutions throughout Michigan. Students and employees from the College of Business and College of Computing will be commingled to promote cross-disciplinary collaboration, innovation, and entrepreneurship.

The design of the building will intentionally promote connections among faculty and students across colleges. Reconfigurable spaces and theme-based shared digital lab facilities will be spread throughout. Additional features of the building will include convergence centers of excellence (fintech, cybersecurity, data science and business analytics, health informatics, and tech-based entrepreneurship), active-learning, computer-learning and online learning classrooms, flexible collaboration spaces open to all, student learning centers, open access conference rooms, a reconfigurable digital maker space, entrepreneurship training hall, and large, mid- and small-sized lecture halls. In addition to meeting Michigan Tech's convergence needs, this building will facilitate continued aggressive growth in areas that will help Michigan reach its goal of Talent Retention/Attraction. The estimated investment of \$87,000,000 will allow Michigan Tech's Colleges of Business and Computing to realize their combined potential and ensure Michigan's future economic prosperity.

#### Reports IX.

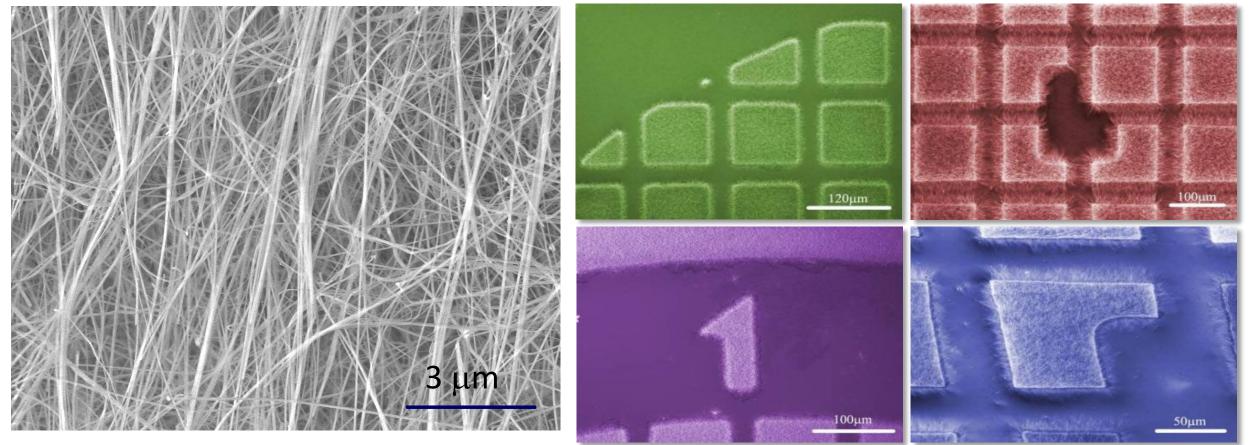
#### A.

**Faculty Presentation** Yoke Khin Yap, University Professor, Professor of Physics

# Nano @ MTU: Quantum Materials & Technology Commercialization

Yoke Khin Yap Department of Physics ykyap@mtu.edu

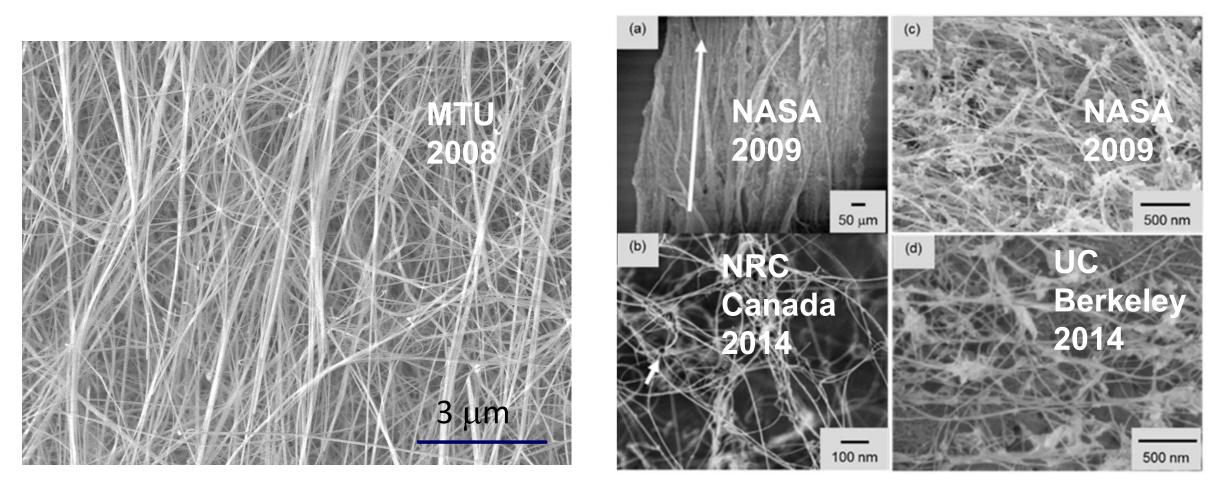
## Boron Nitride Nanotubes (BNNTs) @ MTU Clean Controlled/Patterned Growth on wafers



(Review) Lee et al, "Boron Nitride Nanotubes: Recent Advances in Their Synthesis, Functionalization, and Applications," *Molecules* 21(7), 922 (2016)
C.H. Lee et al. Nanotechnology 19, 455605 (2008), *Chem. Mater.*, 22 (5), 1782-1787 (2010)
(Review) J. Wang, C. H. Lee and Y. K. Yap, *Nanoscale* 2, 2028 (2010).
J. Wang, et al *Nano Letters*.5, 2528 (2005).



## **Best Purity and Quality in The World**



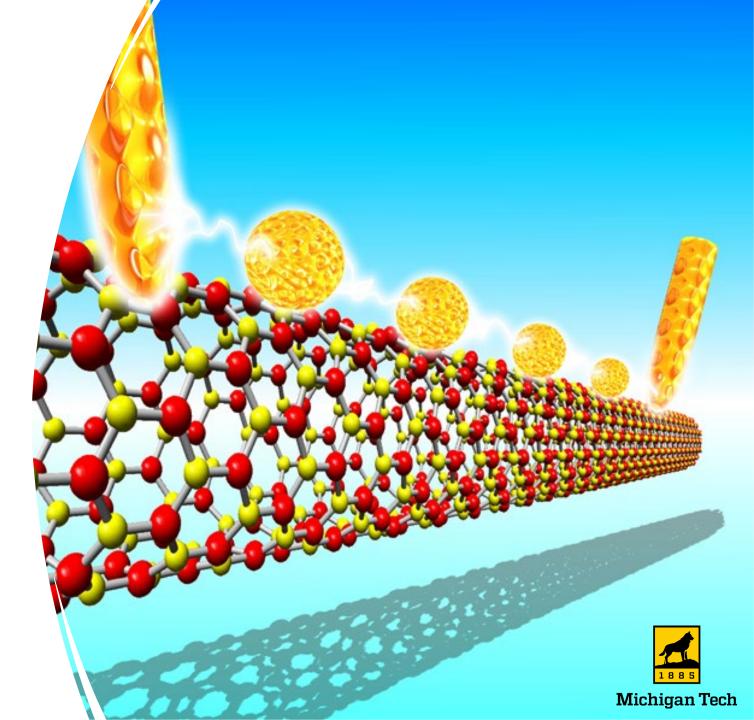
(Review) Lee et al, *Molecules* 21(7), 922 (2016)
C.H. Lee et al. Nanotechnology 19, 455605 (2008), *Chem. Mater.*, 22 (5), 1782-1787 (2010)
(Review) J. Wang, C. H. Lee and Y. K. Yap, *Nanoscale* 2, 2028 (2010).
J. Wang, et al *Nano Letters*.5, 2528 (2005).



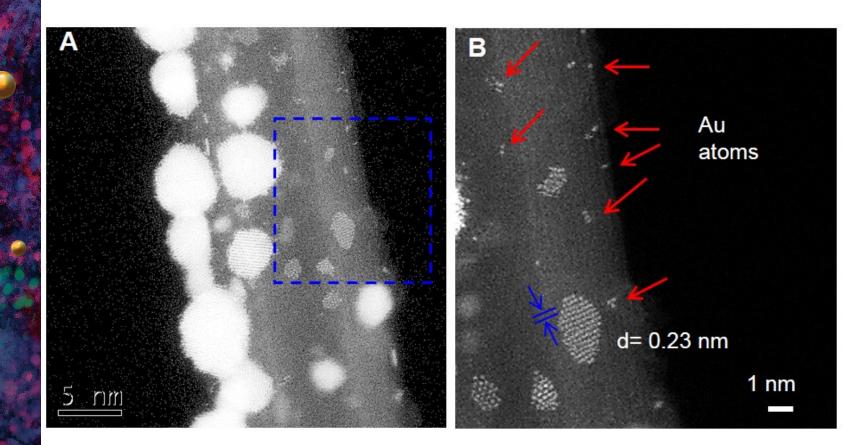
## Transistors without Semiconductors

## Controlling Quantum Tunneling on BNNTs

Lee et al *Advanced Materials* **25**, 2544 (2013). (Review) Zhang et al *J. Mater. Res.* **37**, 4605 (2022). (Review) Zhang et al *ACS Omega* **6**, 20722 (2021).



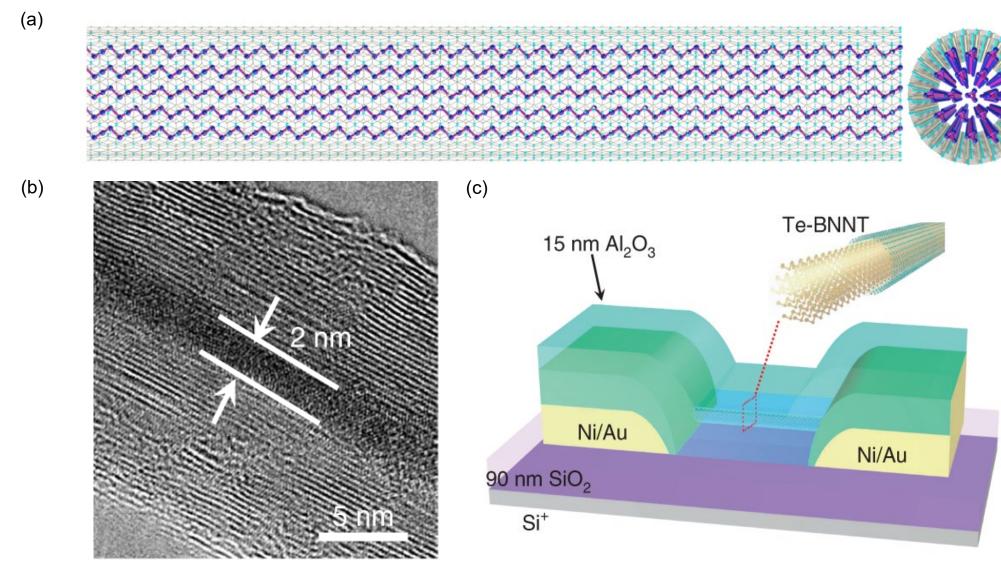
## Monatomic Thick Gold Quantum Dots on BNNTs



Bhandari et al ACS Nano, 13, 4347 (2019).
(Review) Zhang et al J. Mater. Res. 37, 4605 (2022).
(Review) Zhang et al ACS Omega 6, 20722 (2021).



## **Transistors by Atomic Chains inside BNNTs**



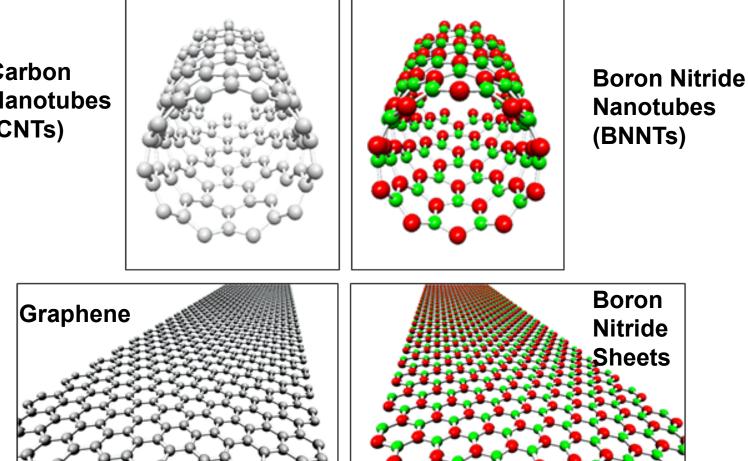
Qin et al, *Nature Electronics* **3**, 141 (2020). (Review) Zhang et al *J. Mater. Res.* **37**, 4605 (2022). (Review) Zhang et al *ACS Omega* **6**, 20722 (2021).

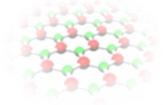
**Michigan Tech** 

## **Nano BN: Technology Commercialization**

### **Boron nitride (BN) is the differentiator: Optically Transparent and Electrically Insulating**

Carbon Nanotubes (CNTs)





**Boron Nitride** Dots (BN dots)



# Detecting What Was Previously UNDETECTABLE

High-Brightness Dyes<sup>™</sup> : See What You've Been Missing



StabiLux Biosciences<sup>®</sup>, Inc

## **New Insight Revealed by Better Detection Technology**



## There is a Universe Inside Your Body:

The discovery of green fluorescent dyes ~60 years ago allows us to see biomolecules never seen before

(Nobel Prize in Chemistry 2008)

## Not long ago: Scientists started to see lights from the antigens on cell surfaces

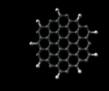
# Not long ago: Scientists can see lights from genes



StabiLux High-Brightness Dyes<sup>TM</sup> will allow us to detect What was previously Undetectable

...and poised to unleash the next wave of biomedical innovation

# Nanotube



# Nanodot

## **Platform Dye Technology**

## Boron Nitride (BN) is the Differentiator: Optically Transparent and Electrically Insulating

- BN <u>nanotubes</u> or BN <u>Nanodots</u> serve as the scaffold to carry arrays of dye.
- Can carry any existing dye in any color
- Can add any biomolecules for specific use: Antibodies, Oligos, DNAs

<u>High-Brightness Dye:</u>
 With Nanotubes (~150nm): ~1,000X brighter
 With Nanodots (~10nm): ~50X brighter

**Confidential Information** 



- Product animation

## Value Proposition of HBFs and HBPs

Allow Detection of Rare Biomarkers and Genes

Enable Early detection of Cancers, Heart diseases, Parkinson, etc.

Induce breakthroughs in immunological and Gene Research

Tack mRNAs inside cells for future mRNA-Vaccines Development

**Confidential Information** 

# **StabiLux**<sup>®</sup> Bright Technology™

### A Platform Solution



# **StabiLux**<sup>®</sup> Bright Technology™

Will Impact on Many Biomedical Areas



# **StabiLux by the Number**

Found in October 2014 with Superior Innovation

**2** Operation Locations: Houghton and Ann Arbor

**\$2.3M** NSF STTR and State Grants to StabiLux (Subaward to MTU)

**\$1M NSF and State Grants to MTU** 

**\$2.2M** Third Party Investment

**7** Foundational Patent Filed, Several Granted

**2** Development Contracts towards commercialization

**7** FTE + **27** Intern appointments @ StabiLux and MTU

Goal: Product Launch by Q1-Q2 2024

**Confidential Information** 





#### My group at Houghton, MI

My group at Ann Arbor, MI









DEVELOPMENT CORPORATION







Formal Session of the Board of Trustees - Agenda

#### B.

**Enrollment Report** John Lehman, Vice President for University Relations and Enrollment

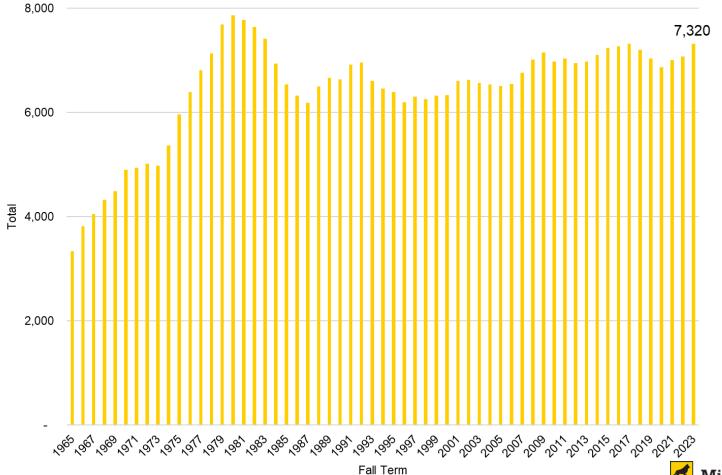
### FOCUSED. DRIVEN. READY TO RUN.

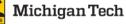
MICHIGAN'S FLAGSHIP TECHNOLOGICAL UNIVERSITY



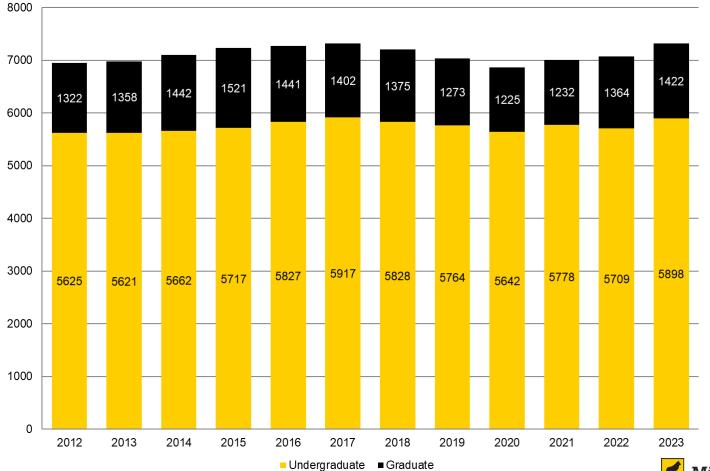
**Board of Trustees Formal Session** Enrollment Update October 6, 2023

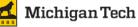
#### Fall Enrollment 1965-2023





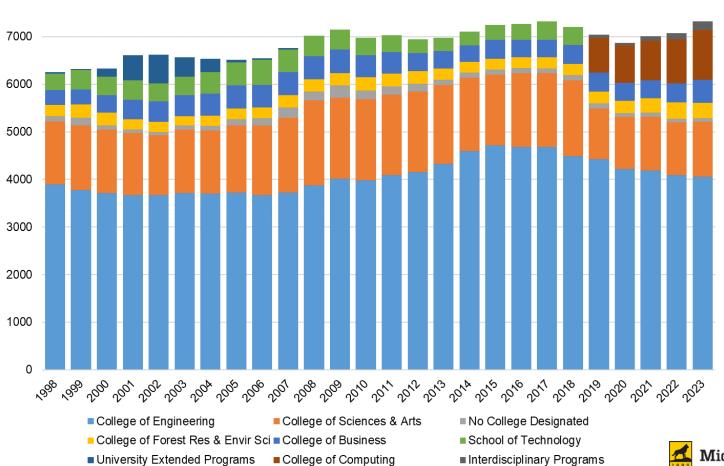
#### Total Enrollment by UG/G

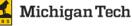


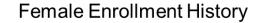


#### All Students by College

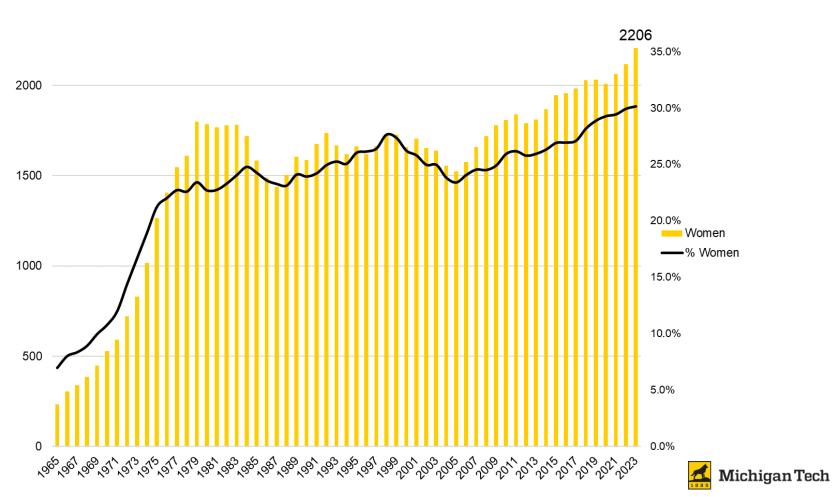
8000



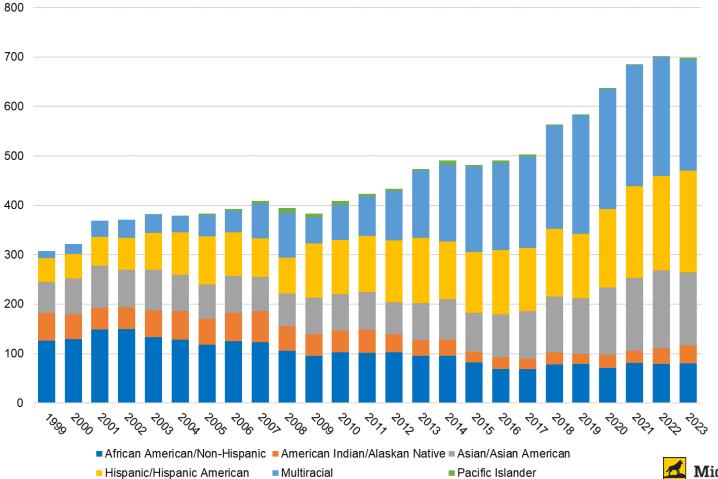






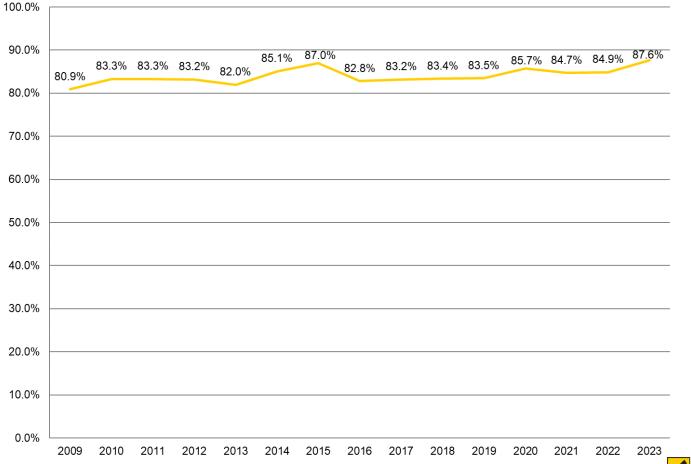


#### **Domestic Diversity**

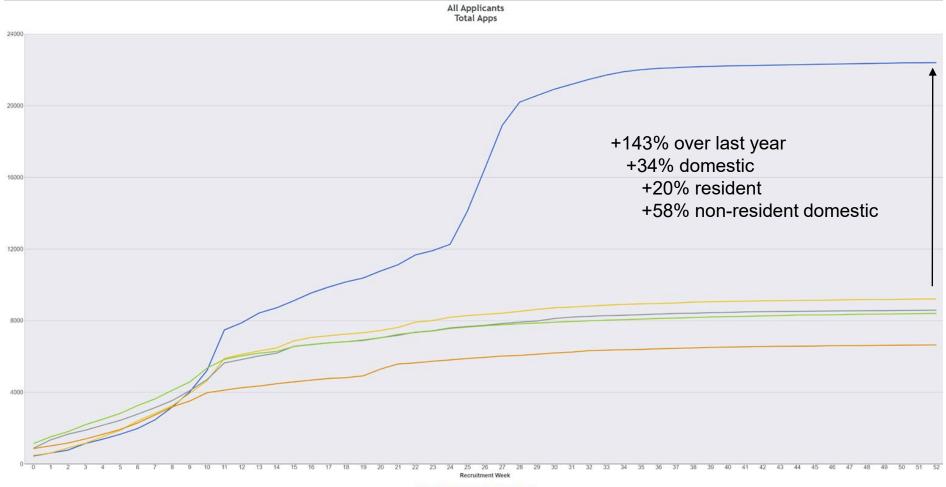




#### Retention Rate 2009-2023

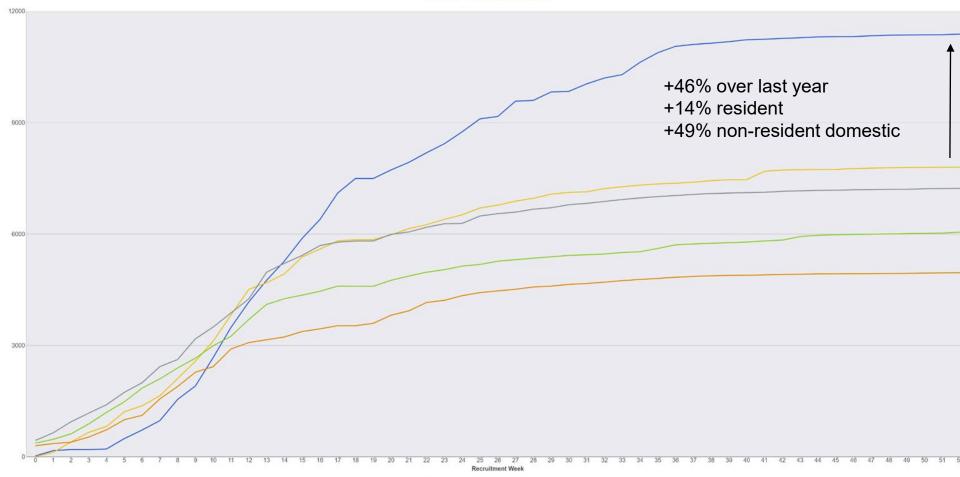






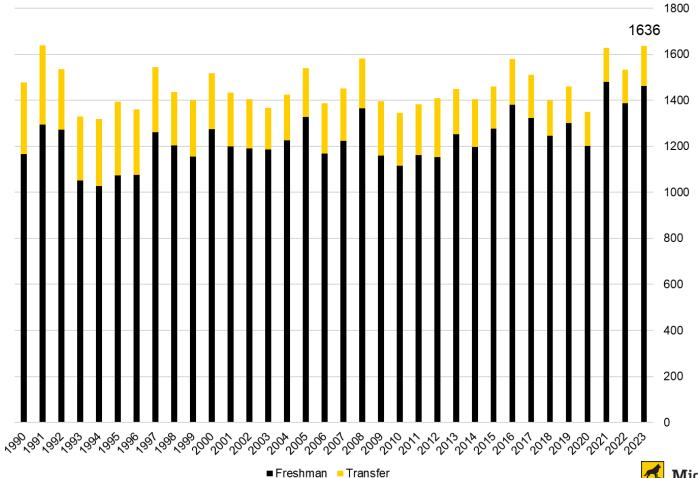
2023 2022 2021 2020 2019

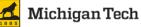
#### All Applicants Admits - Accept and Cancel



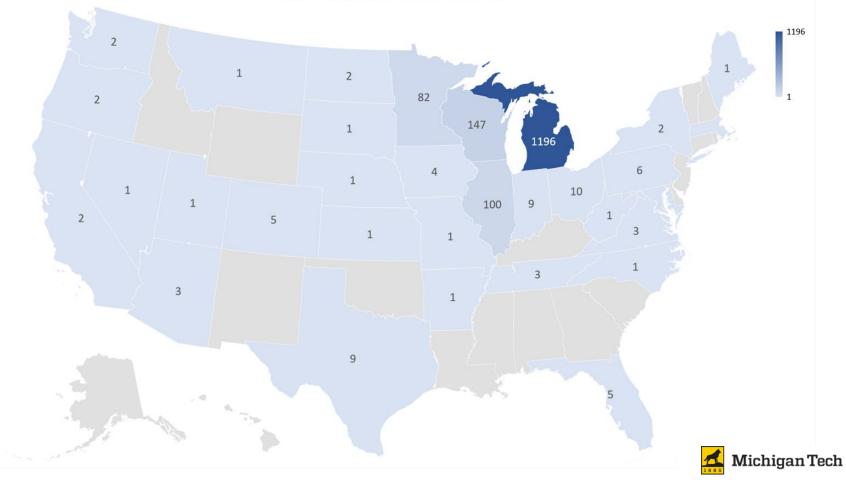
2023 2022 2021 2021 2020 2019

Incoming UG Students 1990-2023



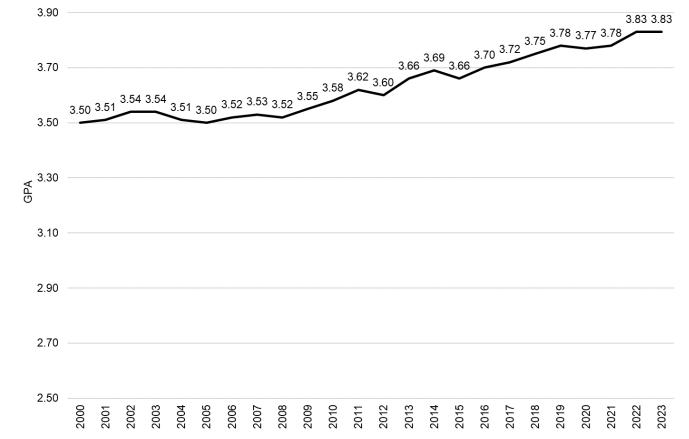


Fall 2023 New Undergraduate Enrollment by State



Incoming Freshmen by Major	2022	2023	Change
Business - All Majors	72	111	+39/54%
Computer Science	129	151	+22/17%
Civil Engineering	65	83	+18/28%
Environmental Engineering	41	47	+6/15%
Electrical Engineering	75	97	+22/29%
Mechanical Engineering	294	322	+28/10%
Mechanical Engineering Technology	22	45	+23/105%
Mechatronics	13	20	+7/54%
General Sciences/Exploring Majors	15	34	+19/127%

Freshmen GPA





### Finlandia University Transfers

Major	Total
Nursing	12
Business	12
Other	14
Total	38





#### C. Undergraduate Student Government Mason Krause, President

## USG Board of Trustees Presentation

Mason Krause, USG President

10-6-2023





### **USG Committee Accomplishments**

#### **Events**

- Best K-Day Ever!
- Body Barn cleaned up and contracts signed
- Campus-Wide Scavenger Hunt
- USG Meet and Greets

### **Political Affairs**

- Putting on events to increase campus engagement and discourse.
- Dumb Debate Nights
- Continued efforts to increase student voter engagement







### **USG Committee Accomplishments**



### Ways and Means

- Streamlined RSO Purchase Request Process
- Writing clarifying bylaw amendments
- Continuing to support RSOs through the 

   opportunity and reserve fund request process

### **Student Affairs**

- Fielding dining hall, transportation, and parking concerns to ensure efficient feedback
  - Pursuing additional systems for locating off-campus housing



### **USG Committee Accomplishments**



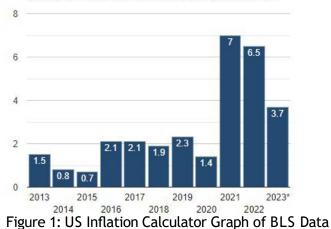
#### **Public Relations**

- Most social media engagement and interaction ever!
- Keeping students up to date on campus changes and activities
- Helping to inform students of the benefits of their student activity fee



### Future Plans - SAF Cost

Chart: United States Annual Inflation Rates (2013 to 2023)





#### **Quick Facts:**

- Last Time the Student Activity Fee was Increased was in 2012
- Price set at 60\$
- \$60 in 2012 adjusted to match the CPI would be equal to ~\$80 today
- Transportation fees have risen sharply
  - This particularly affects organizations which travel (Hotel Rooms, Vehicle Rentals, etc.)

#### **Next Steps:**

- Reaching out to RSO Officers to gage how different organizations are being affected
- Making sure students are aware of what the SAF supports and how they can best utilize it
- Polling students to gauge interest in a change



# Thank you! Questions or Comments?

Mason Krause <u>mrkrause@mtu.edu</u> <u>usg-president@mtu.edu</u>





#### D. Graduate Student Government Karlee Westrem, President



# Presentation to BOARD OF TRUSTEES Karlee Westrem

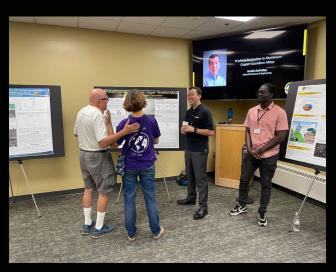
GRADUATE STUDENT GOVERNMENT October 6, 2023



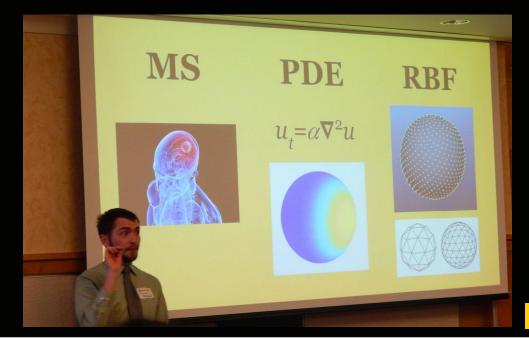
# **GSG FALL RESEARCH EVENTS**

### Alumni Reunion Poster Session

### **3 Minute Thesis Competition** Thursday November 9th







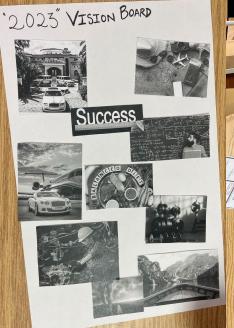


# GSG FALL PROFESSIONAL DEVELOPMENT EVENTS

### **Vision Board Workshop**

### Personal Branding Workshop Upcoming Event









### New Graduate Student Orientation Picnic Hancock Beach

October 6, 2023

adidas







### **First Friday Social** Grad Commons









# Updates

### **Grad Commons**

May 1,2022-August 30, 2023

1,839 swipes\*299 unique students~21% of graduate student population

### TRAVEL AND CAREER ENRICHMENT GRANTS

71 Travel Grants 1 Career Enrichment



# THANK YOU

# E. University Senate Robert Hutchinson, President

# University Senate AY23/24 Preview

# Robert Hutchinson, Senate President



# **Continuing Business from Spring 23**

- 19-23: Amending Constitution and Bylaws to Combine Voting Blocks
- 35-23: Mental Health Awareness



# **Selected Priorities for AY 23/24**

- New curriculum supporting Portrait 2035/45
- Continue working on Search/Evaluation Procedures for Chairs?
- Referendum to approve changes to the Senate Constitution and Faculty Handbook regarding joint appointment procedures
- Continue to support ITF status change from 38-22
- Continue the positive changes in shared governance and senate leadership from last year!

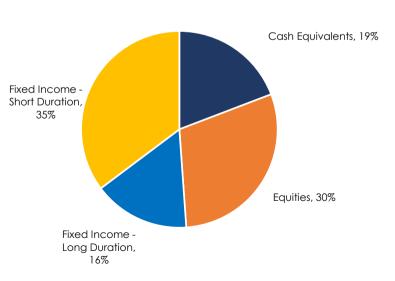


## X. Informational Items

## A. Analysis of Investments

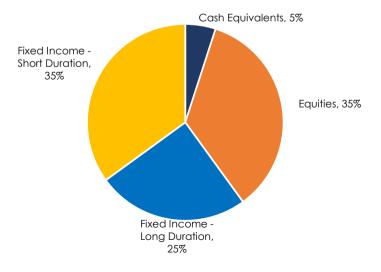
#### MICHIGAN TECH UNIVERSITY INVESTMENT PORTFOLIO JUNE 30, 2023 THROUGH AUGUST 31, 2023

	Market Value 6/30/2023	Market Value 8/31/2023	Fiscal-Year Investment Return	Benchmark Return	Benchmark
Money Market Fund	\$ 1,706,318	\$ 8,302,604	0.88%	0.86%	ICE BofA Merrill Lynch US T-Bill Index
Equity Funds:					
Core Equity Fund	7,818,944	7,290,209	1.42%	1.57%	S&P 500
Commonfund Strategic Solutions Equity Fund	5,485,594	5,537,893	0.95%	1.57%	S&P 500
Total Equity Funds	13,304,538	12,828,102			
Fixed Income Funds:					
Intermediate Term Fund	7,252,185	5,982,659	0.77%	0.75%	ICE BofA Merrill Lynch 1-3 Yr Treasury
Commonfund Contingent Asset Portfolio	9,594,832	9,255,251	0.59%	0.75%	ICE BofA Merrill Lynch 1-3 Yr Treasury
High Quality Bond Fund	5,230,205	3,237,277	-0.72%	-0.71%	Bloomberg Barclays US Aggregate Bond Index
Multi-Strategy Bond Fund	5,899,333	3,627,379	-0.70%	-0.71%	Bloomberg Barclays US Aggregate Bond Index
Total Fixed Income Funds	27,976,555	22,102,566			
Total	\$ 42,987,411	\$ 43,233,272	0.67%		







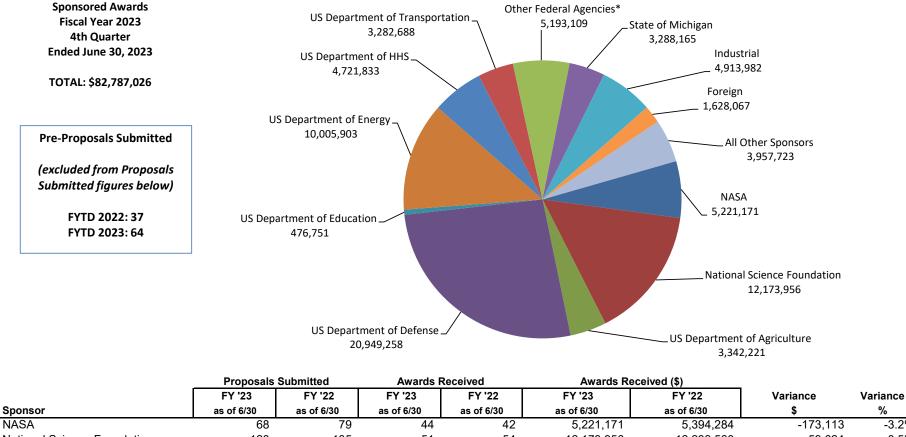


# B. Research & Sponsored Programs

# **Sponsored Activities Summary**

Fiscal Year 2023, Quarter Ended 6/30/2023

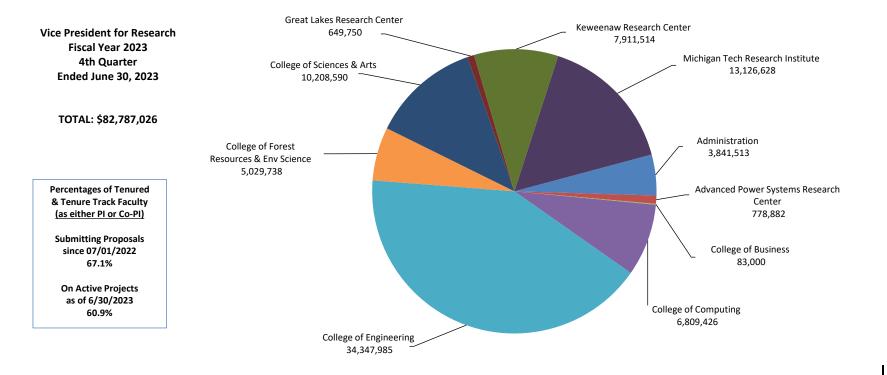
- ▶ Total awards are up 4.6% for FY23 compared to FY22.
- ➢ Gifts are down 20.3% for FY23 compared to FY22. This is after being down 30.7% in the 3rd quarter of FY23 when compared to that same period in FY22.
- ▶ Federal agency awards are up 4.9% for FY23 compared to FY22.
- > Overall Industry activity increased this fiscal year; it is up 3.9% over last fiscal year.
- Preliminary research expenditures are up 8.2% over FY22. Internal research expenditures are up 11% while the external expenditures are up 6.4%.



Sponsor	as of 6/30	æ	70					
NASA	68	79	44	42	5,221,171	5,394,284	-173,113	-3.2%
National Science Foundation	128	135	51	54	12,173,956	12,233,580	-59,624	-0.5%
US Department of Agriculture	57	43	38	42	3,342,221	2,126,970	1,215,251	57.1%
US Department of Defense	109	117	100	104	20,949,258	20,238,672	710,586	3.5%
US Department of Education	5	6	4	4	476,751	335,401	141,350	42.1%
US Department of Energy	66	42	47	34	10,005,903	6,667,440	3,338,463	50.1%
US Department of HHS	76	60	18	9	4,721,833	6,415,389	-1,693,556	-26.4%
US Department of Transportation	24	17	13	19	3,282,688	4,438,210	-1,155,522	-26.0%
Other Federal Agencies*	68	68	34	47	5,193,109	4,471,755	721,354	16.1%
Federal Agency Total	601	567	349	355	65,366,890	62,321,701	3,045,189	4.9%
State of Michigan	42	43	31	30	3,288,165	2,846,172	441,993	15.5%
Industrial	131	149	115	145	4,913,982	6,409,843	-1,495,861	-23.3%
Foreign	7	16	13	11	1,628,067	1,125,945	502,122	44.6%
All Other Sponsors	99	78	49	45	3,957,723	1,656,092	2,301,631	139.0%
Subtotal	880	853	557	586	79,154,827	74,359,753	4,795,074	6.4%
Gifts**	N/A	N/A	253	245	3,611,978	4,531,416	-919,438	-20.3%
Crowdfunding	N/A	N/A	15	10	20,221	225,997	-205,776	-91.1%
Grand Total	880	853	825	841	82,787,026	79,117,166	\$3,669,860	4.6%

\* National Endowment for the Arts and Humanities, US Dept of Commerce, US Dept of the Interior, US Dept of Labor, US Environmental Protection Agency, US Dept of Justice, US Dept of Homeland Security, Office of the Director of National Intelligence, US Dept of State, US Small Business Administration, Washington Headquarters Services

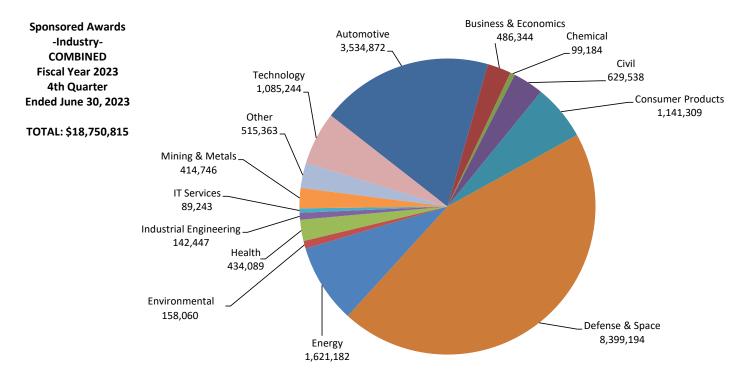
\*\*Gifts represent non-contractual funding from corporations, foundations, associations and societies in support of academic programs, scholarships/fellowships, student design & enterprise, research, youth programs and special programs.



		Advanced Power				College of Forest							
SPO & OIC Metrics <sup>1</sup>	Administration	Systems Research Center	College of Business	College of Computing	College of Engineering	Resources & Env Science	College of Sciences & Arts	Great Lakes Research Center	Keweenaw Research Center	Michigan Tech Research Institute	Totals	Fiscal Comparison	Percent Change
Proposals Submitted	25	11	7	60	375	105	126	27	63	81	880	853	3.2%
Awards Received	152	8	5	38	309	88	75	17	53	80	825	841	-1.9%
Federal	777,489	-	-	3,997,473	20,936,087	3,362,891	8,528,771	208,946	5,167,814	3,277,982	46,257,453	37,947,431	21.9%
Federal Pass-Through	316,907	268,009	-	1,611,227	6,692,602	628,055	1,012,508	329,003	55,601	8,195,525	19,109,437	24,374,270	-21.6%
Foreign	-	-	-	-	402,550	-	18,876	25,218	-	1,181,423	1,628,067	1,125,945	44.6%
Gifts	2,045,778	-	73,000	250,290	682,978	241,250	216,632	-	2,050	100,000	3,611,978	4,531,416	-20.3%
Crowdfunding	906	-	-	3,455	7,350	879	-	3,700	3,931	-	20,221	225,997	-91.1%
Industry	28,750	366,948	-	44,059	1,444,796	275,969	72,298	4,044	2,677,118	-	4,913,982	6,409,843	-23.3%
Other	30,000	33,925	10,000	593,397	2,348,241	274,690	328,064	77,708	5,000	256,698	3,957,723	1,656,092	139.0%
State of MI	641,683	110,000	-	309,525	1,833,381	246,004	31,441	1,131	-	115,000	3,288,165	2,846,172	15.5%
Total \$ by Division	3,841,513	778,882	83,000	6,809,426	34,347,985	5,029,738	10,208,590	649,750	7,911,514	13,126,628	82,787,026	79,117,166	4.6%
Fiscal Comparison	4,373,623	1,944,805	169,799	3,355,959	31,809,655	4,323,945	11,986,180	1,901,769	7,443,278	11,808,153	79,117,166		
Percent Change	-12.2%	-60.0%	-51.1%	102.9%	8.0%	16.3%	-14.8%	-65.8%	6.3%	11.2%	4.6%		
Disclosures Received <sup>2</sup>	2.78%	-	-	10.56%	63.55%	-	23.11%	-	-	-	18	31	-41.9%
Nondisclosure Agreements	2	8	-	4	53	2	-	1	14	14	98	88	11.4%
Patents Filed or Issued <sup>2</sup>	-	-	-	-	41.67%	-	58.33%	-	-	-	12	22	-45.5%
License Agreements	-	-	-	-	7	-	-	-	-	2	9	6	50.0%
Gross Royalties <sup>2</sup>	-	-	-	0.59%	8.24%	-	8.82%	-	11.76%	70.59%	68,409	76,548	-10.6%

<sup>1</sup> Combined Metrics from both the Sponsored Programs Office (SPO) and Office of Innovation & Commercialization (OIC)

<sup>2</sup> 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).



	Proposals S	ubmitted	Awards R	eceived	Awards Rece	eived (\$)		
	FY '23	FY '22	FY '23	FY '22	FY '23	FY '22	Variance	Variance
Industry Segment	as of 6/30	as of 6/30	as of 6/30	as of 6/30	as of 6/30	as of 6/30	\$	%
Automotive	45	44	77	80	3,534,872	3,721,109	-186,237	-5.0%
Business & Economics	6	5	17	19	486,344	153,893	332,451	216.0%
Chemical	1	9	5	9	99,184	279,461	-180,277	-64.5%
Civil	5	9	34	33	629,538	272,633	356,905	130.9%
Consumer Products	27	28	57	48	1,141,309	1,287,072	-145,763	-11.3%
Defense & Space	33	66	53	61	8,399,194	8,658,795	-259,601	-3.0%
Energy	7	11	29	24	1,621,182	825,602	795,580	96.4%
Environmental	12	4	16	16	158,060	109,389	48,671	44.5%
Health	6	10	15	21	434,089	921,566	-487,477	-52.9%
Industrial Engineering	9	8	9	10	142,447	152,857	-10,410	-6.8%
IT Services	13	5	10	11	89,243	99,110	-9,867	-10.0%
Mining & Metals	16	15	28	22	414,746	471,698	-56,952	-12.1%
Other	14	14	35	32	515,363	743,604	-228,241	-30.7%
Technology	14	19	11	17	1,085,244	349,683	735,561	210.4%
Total	208	247	396	403	18,750,815	18,046,472	704,343	3.9%

\*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.

### Michigan Technological University Total PRELIMINARY Research Expenditures by College/School/Division Fiscal Year 2023 & 2022 As of June 30, 2023 and June 30, 2022

	Preliminary	Preliminary		
College/School/Division	FY2023	FY2022	Variance	%
Administration*	4,810,224	3,683,556	1,126,668	30.6%
Advanced Power Systems Research Center (APSRC)	1,721,481	1,020,792	700,689	68.6%
College of Business	1,873,140	1,823,367	49,773	2.7%
College of Computing	5,833,345	4,940,119	893,226	18.1%
College of Engineering	38,457,708	33,957,094	4,500,614	13.3%
College of Forest Resources & Environmental Science	7,883,525	6,964,038	919,487	13.2%
College of Science & Arts	18,030,384	16,503,279	1,527,105	9.3%
Great Lakes Research Center (GLRC)**	1,667,906	1,419,899	248,007	17.5%
Pavlis Honors College	N/A	N/A	N/A	N/A
Keweenaw Research Center (KRC)	8,795,329	11,276,788	(2,481,459)	-22.0%
Michigan Tech Research Institute (MTRI)	13,605,971	13,322,889	283,082	2.1%
Total	102,679,013	94,911,821	7,767,192	8.2%

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

### C. Advancement & Alumni Relations

#### Advancement and Alumni Engagement Narrative Michigan Tech Board of Trustees October 6, 2023

2023-2024 Goals and Initiatives to be achieved in collaboration with administrative and academic leadership and the Michigan Tech Fund Board of Directors.

- Paramount focus on Donor Integrity
  - Invest in each segment of the donor journey and facilitate a strategic opportunity to match the donor's passion
  - Follow our strategy for our annual, mid-level, major and principal level of giving
- Add new constituents and increase movement in the donor pipeline
- Launch and implement CRM
- Enhance donor impact and stewardship
- Get to 45% of the \$350 million campaign goal

#### FY24 MTF Working Goals

- "The Year of Execution" on a Strong Foundation
  - Donor First: Culture supported by processes, practices and people
  - Campaign Execution: Provide oversight and resources for a successful campaign
  - $\circ$   $\$  Cash Flow Management: Execute and enhance cash flow
  - Endowment Growth: Higher emphasis on endowment gifts

#### Highlights

- Over \$120 million in philanthropic contributions and currently 34% to the \$350 million goal
- Raised \$44.8 million, 107% of the \$41.8 million goal (as of 6/30/2023 )
- \$47.3 million outstanding asks from individuals
- Raised nearly \$5 million for the endowment
- Campaign:
  - Hosted Campaign Executive Committee Meetings
- Hosted and attended alumni meetings and golf event in Traverse City, MI
- Nearly 500 alumni & friends joined us for a fun-filled Reunion Weekend
  - We saw alumni from 35 states (+ Canada) in attendance, ranging from the classes of 1953-2023
  - $\circ$   $\;$  More events sold out than years past  $\;$
  - Hosted the honored classes dinner on the backstage of the Rozsa with delicious action stations, before moving into the Alumni Awards Ceremony with beautiful desserts, and a bar menu that featured signature cocktails of our award winners
- Hosted Traveling Tech Talks and alumni meetings, Denver, CO
- Trail Dedication, MTU Trails
- Launched the new Customer Relationship Management (CRM) System Ellucian CRM Advance

#### Fundraising totals as of June 30, 2023 due to the implementation of the new CRM.

*Note: Up to date numbers will be provided for the December Board of Trustees meeting.* 

- \$15.1 in planned gifts
- \$3.2 in realized planned gifts
- \$6.1 in major outright gifts and pledges

- \$2.7 in annual gifts under \$10,000
- \$3.2 in corporate support
- \$1.3 in foundation gifts
- 66 illustrations, proposals, and gift agreements were provided for donors

#### Principal Giving

#### FY24/FY25 Pending Gifts:

- Working to finalize \$13 mm outright gifts and estate gifts for scholarships for the College of Sciences and Arts, with an emphasis on Physics, Chemistry and Mathematics and a combination of an endowed faculty position and scholarships, and research.
- We are working on 7 figure gifts to benefit the CFRES and/or Husky Child, the CoE Care initiatives, CoB football program and the Center for Convergence and Innovation Building.
- Planning campaign events and visits in lower Michigan Northeast Coast, California and Minnesota

#### Advancement and Gift Planning

Activity:

- The frontline fundraising team's future travel for donor engagement and asks is scheduled through March 2024.
- Market development staff will begin discovery and qualification calls to expand the major gift level donor pipeline.
- The new Customer Relationship Management (CRM) System Ellucian CRM Advance, went live on the campus of Michigan Tech on August 7. The new platform will increase our efficiency, engagement and communication internally as well as with our alumni and donors in a personal and professional capacity.
- Deans and Campus Units' collaborative meetings held in August focused on transitioning new interim dean fundraising plans for FY24 and other campus partner support.
- Participated in a reunion of the Thompson Scholars Pavement Enterprise program.
- Corporate and Foundation relations (CFR) has several multi-million dollar proposals in the pipeline, both in corporate and foundation philanthropic asks delivered. Quarterly executive visits facilitating strategic engagement between university leadership and key corporate and foundation partners will continue in the fall.
- The CFR team has again provided significant support for the Fall Career Fair.
- Working with campaign consultant, CCS Fundraising, to refresh donor wealth screening and donor propensity.
- Transitioned the Annual Giving program to Alumni Engagement to streamline alumni communications and appeals.

#### Staffing:

- Hired new director for charitable giving
- Job Postings
  - Senior Administrative Aide, Advancement and Gift Planning
  - Director of Charitable Gifts Athletics and Recreation
  - Director of Charitable Gifts
  - Business Systems Analyst/Data Visualization Specialist

#### Alumni Engagement & Annual Giving

<u>Events</u>

• More than 500 alumni & friends celebrated <u>Reunion Weekend 2023</u>.

- We saw alumni from 35 states (+ Canada) in attendance, ranging from the classes of 1953-2023
- New format for the honored classes dinner was well received hosted on the backstage of the Rozsa with delicious action stations, before moving into the Alumni Awards Ceremony with beautiful desserts, and a bar menu that featured signature cocktails of our award winners
- Hosted 3rd <u>Traveling Tech Talks</u> event in Denver, more than 35 attendees, featuring alumni ranging from 1969-2022 classes
- Inducted 8 new members of the <u>Presidential Council of Alumnae</u> on September 14, hosted nearly 50 PCA members for the 2023 induction & meetings September 14-15
- In the month of October, the AE Office will be hosting a variety of service events for alumni & friends in various regions with a variety of alumni hosts. These service-oriented events are part of a larger "Make A Difference" month both regionally and on campus (Student Leadership & Involvement Office coordinates with students). Throughout the month of October, we are coming together as a united community to engage in various projects that embody the spirit of giving back.
- GLI 2023
  - Presale tickets for the 58th Great Lakes Invitational will be available to MTU alumni on Monday, September 18, 2023, at 10:00 a.m. and the on-sale date will begin on Friday, September 22, 2023, at 10:00 a.m.

#### **Communications**

- Continue to work with our vendor partner RNL on some mass annual giving solicitations, as well as create our own in-house appeals to maximize omni-channel approach for annual giving, to meet the goal of building the donor pipeline
- Continue to build social media presence /following through intentional content strategy - we are seeing that pay off as we are gaining followers and noting engagement increases on our material, we have also noted event attendance is directly affected.
- We want to continue to share more alumni stories through thoughtful A&Q blogs and full alumni profiles (mixed in along with general alumni news, event and giving promotions).

#### <u>Volunteerism</u>

- Hosting a cohort of alumni for <u>Time & Talent</u> the week of October 2-6. These alumni will be guest lecturing in multiple classes and to multiple student organizations.
- Nominations are open for the <u>Alumni Board of Directors</u>. Alumni may self-nominate or be nominated until December 1, 2023. After nominations close, the Alumni Board of Directors will schedule interviews and vote on new members. Those elected to membership will begin their 6-year term of service on July 1, 2024.

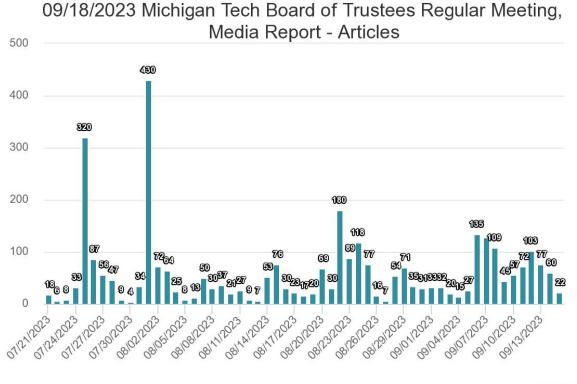
## D. Media Coverage

Media Report: July 21 to Sept. 15, 2022 Michigan Technological University Regular Meeting of the Board of Trustees Oct. 6, 2023

#### Overview

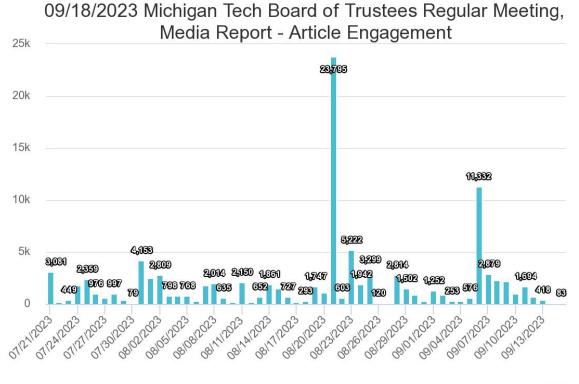
Articles	3,346
Total engagement	~ 104.6K
Average engagement	31
Journalist shares	245
Journalist reach	~ 9.64M
Average unique visitors per month (UVM)	~ 2.56M
Total UVM	~ 8.56B

Between July 21 and Sept. 15, 2023, a total of 3,346 online articles mentioned Michigan Technological University:



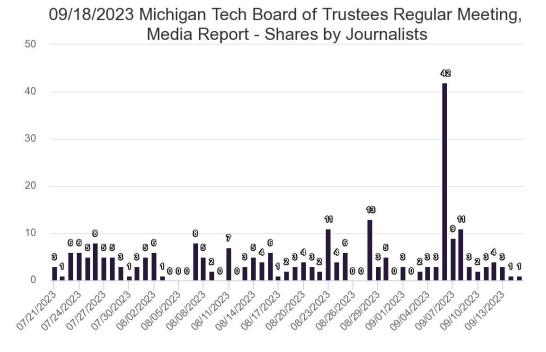
MUCK RACK

Those 3,346 articles were shared, commented on, or liked on social media roughly 104,600 times, for an average engagement of 31 shares, comments, or likes per article:



MUCK RACK

Journalists shared the articles on Twitter 245 times, resulting in a reach of roughly 9.64 million people:



MUCK RACK

News Highlights:

#### **Research News**

Simon Carn (GMES) was quoted by NASA's <u>Earth Observatory</u> and <u>eGreenews</u> in stories about the continuing eruption of Iceland's Fagradalsfjall volcano, which began June 10. Carn estimated that the volcano's sulfur dioxide emissions are "in the range of several thousands of tons per day."

Aimee Marceau (BioSci) and Kristin Brzeski (CFRES) appeared in a <u>WLUC TV6</u> broadcast about Michigan Tech's Tick Talk crowdsourced tick collection, which is being conducted by the Genomic Sequencing Lab. Ticks from Copper Country residents and their pets can be submitted through dropboxes on campus through Sept. 30.

<u>The Gander</u> and <u>The Maritime Executive</u> mentioned Michigan Tech in a story about \$500,000 in state grants awarded by Gov. Gretchen Whitmer last week for projects to expand the use of electric boats on the Great Lakes. The report says MTU will receive \$50,000 to "partner with local utilities and marinas to determine how far people can travel from their home docks, the optimal distance between charging stations, charging times and costs, as well as how much energy is needed to support a specific number of chargers."

David Reed (VPR) was quoted by <u>Michigan Business Network</u> in a press release picked up from the office of Gov. Gretchen Whitmer about the state budget passed for fiscal year 2024. The state has set aside \$5 million for a critical mineral battery recycling research hub and will partner with Michigan Tech on the project.

Kristin Brzeski (CFRES) was quoted by <u>Discover Magazine</u> in a story explaining how scat collected in Maine could help determine whether wolves have returned to the state.

The <u>U.S. Department of Energy</u> announced Michigan Tech as one of six recipients of a total \$9 million in funding for technology development projects that will help model a low-carbon intermodal freight transportation system. MTU was awarded \$1.2 million by the Advanced Research Project Agency (ARPA-E) to build a flexible, adaptive modeling platform that will support "long-term planning decisions on transportation mode, route, and charging." The DOE's press release was picked up by <u>Green Car Congress</u>.

The <u>Daily Mining Gazette</u> covered Michigan Tech's selection as one of 11 recipients of a total \$11 million in research grants to address energy transitions in underserved communities awarded by the <u>U.S. Environmental Protection Agency</u>. Tech's project will engage forest-dependent tribal and rural communities in northern Michigan, studying current energy systems and pathways for energy transitions that improve community well-being.

Tara Bal (CFRES) was quoted by Australia's <u>National Tribune</u> in a story about a binational project involving U.S. and Canadian researchers working to prevent the spread of oak wilt, a fatal tree disease spread by sap beetles. The article was picked up from a story in <u>Michigan</u> <u>Tech News</u>.

Vinh Nguyen (ME-EM) was quoted by the <u>Detroit News</u> in a story about \$335 million in earmarks to fund Michigan-based projects included in proposed Congressional legislation heading into September. Among them is a \$2 million proposal to launch a research center at MTU to develop winter weather standards for vehicles with self-driving capabilities.

Sarah Hoy (CFRES) was quoted by <u>Yahoo! News</u>, <u>Radio France Internationale</u>, the <u>Times of</u> <u>India</u>, the <u>Duluth News Tribune</u> and more than 50 other regional and national news outlets around the globe in stories about a new study published in <u>Science Advances</u> assessing how changing grey wolf genetics impacted the Isle Royale National Park ecosystem over two decades. The study describes the genetic impact of a single wolf, "The Old Gray Guy," whose story was featured last week on Michigan Tech's <u>Unscripted Research Blog</u>.

Paul van Susante (ME-EM) was quoted by <u>SpaceRef</u> in a story covering the Johns Hopkins University Applied Physics Laboratory's meeting with strategists and technologists to identify what's needed to establish a Lunar Proving Grounds to test technology functionality in the "ruthless lunar environment." van Susante, described in the story as a lunar specialist, was one of the meeting participants.

Ana Dyreson (ME-EM) was quoted and Ph.D. students Ayush Chutani and Shelbie Davis (both mechanical engineering) were mentioned by <u>UPWord</u> in a story about their research on snow's impact on solar power systems and how to mitigate it.

#### **General News**

The <u>Wall Street Journal</u> named Michigan Tech the nation's second most influential public university for salary impact — how much a college boosts salaries earned by students after graduation. MTU ranked higher than any other Michigan college in the category. Tech also made the WSJ's list of <u>Best U.S. Colleges 2024</u>, ranking 16th overall among U.S. public universities.

University President Rick Koubek and Beth Fitzpatrick (ADM) were quoted by <u>WLUC TV6</u> in a story about Michigan Tech's fall 2023 enrollment statistics. Highlights included total enrollment increasing by 3.5% and women representing 30% of Tech students for the first time ever. The enrollment numbers were announced in early September by <u>Michigan Tech News</u>.

<u>WLUC TV6, WZMQ 19 News</u> and the <u>Keweenaw Report</u> mentioned Michigan Tech in stories about Sen. Debbie Stabenow's visit to the U.P. to promote technology, innovation and workforce development in the region, which included a stop at the Keweenaw Research Center. Jeffrey Naber (ME-EM/APSRC) and Mojtaba Bahramgiri (AC) were quoted in the 19 News story. Michigan Tech was mentioned by <u>WLUC TV6</u>, the <u>Daily Mining Gazette</u>, and the <u>Alpena News</u> in stories about MTU's Aviation and Aerospace summer youth program, hosted by Michigan Tech's <u>Center for Educational Outreach</u>.

Mary Jennings (Rozsa) was quoted by <u>WJMN Local 3</u> in coverage of the Rozsa Center for the Performing Arts' recently announced 2023-24 Presenting Series lineup, which includes a Nov. 10 show by comedian Charlie Berens.

Scott Bradley (KRC) and Geoff Gwaltney (KRC) were quoted in a <u>WLUC TV6</u> story about the 70th Anniversary celebration held at the Keweenaw Research Center on Friday, Aug. 4.

<u>Bridge Michigan</u> and <u>WLUC TV6</u> mentioned Michigan Tech President Rick Koubek, who was listed as a member of the Higher Education workgroup announced by Gov. Gretchen Whitmer. The workgroups are part of Whitmer's "Growing Michigan Together Council," which aims to attract and retain younger residents in the state.

The <u>Michigan Economic Development Corporation</u> mentioned Michigan Tech's partnership with Eagle Mine in a story about the Upper Peninsula's advantageous community spirit.

The <u>Daily Mining Gazette</u> mentioned Michigan Tech in a story summarizing the Houghton Planning Commission's Aug. 22 meeting, including the approval of site plans for a 186-bed apartment project at 100 Pearl St. The project will help accomplish the city's goal of drawing MTU students closer to campus.

<u>WLUC TV6</u> covered the beginning of the 2023 fall semester at Michigan Tech. Huskies Olivia Capelle (biomedical engineering), Ben Penix (electrical engineering) and Perry Mesloh (history) were quoted in the story.

<u>WLUC TV6</u> ran a story about University President Rick Koubek's appearance as a guest on the station's "Upper Michigan Today" morning show on Friday (Sept. 8).

MTU student Logan Madden (mechanical engineering) was interviewed by <u>Northern Express</u> for a story highlighting various school-to-work pipelines at Northwestern Michigan College. NMC partners with Michigan Tech on a 2+2 Program that allows students to earn an associate degree from NMC and a bachelor's in engineering at Tech. The partnership <u>began in 2019</u>.

<u>WLUC TV6</u>, the <u>Daily Mining Gazette</u> and the <u>Keweenaw Report</u> covered the fifth annual GeekU.P. mini-con event held at the Rozsa Center for the Performing Arts last Saturday (Sept. 9). MTU students Ben Boelens (computer engineering) and Dolan Moles were quoted by the Gazette.

Kellie Raffaelli (SA) was quoted and Mariana Nakashima (IPS) was mentioned in an <u>ABC 10</u> story discussing the shifting demographics of Michigan Tech's international students leading up to the University's Parade of Nations on Saturday (Sept. 16).

# E. Employee Safety Statistics



## **EMPLOYEE SAFETY STATISTICS YEAR-TO-DATE**

Jan - Aug 2022/2023 year to date

	Cotomony	Veere			Employ	ee Classific	cation			
	Category	Years	AFSCME	Faculty	Non-Exempt	POA	Professional	Temporary	UAW	Total
	Injury Only w/Medical - No Lost	2022	1	0	0	0	0	0	0	1
	Time	2023	2	0	0	0	0	0	0	2
	Lost Time Cases	2022	3	0	0	0	1	1	0	5
Number of	Lost Time Cases	2023	2	0	0	0	0	0	0	2
Recordable	Restricted Work Cases	2022	0	0	0	0	1	0	0	1
Injuries	Resilicied work cases	2023	1	0	0	0	0	0	0	1
	Occupational Safety and Health Administration (OSHA)	2022	4	0	0	0	2	1	0	7
	Recordable Injuries (Total of above)	2023	5	0	0	0	0	0	0	5
	Injury Lost Time <sup>3</sup>	2022	163	0	0	0	5	29	0	197
Number of	Injury Lost Time	2023	8	0	0	0	0	0	0	8
Days		2022	0	0	0	0	7	0	0	7
	Restricted Work Days <sup>3</sup>	2023	15	0	0	0	0	0	0	15
	Total Work Hours	2022	152,318	447,787	52,153	11,329	736,254	48,960	97,272	1,546,073
Hours	TOTAL WORK HOURS	2023	162,741	454,179	54,419	11,183	782,882	50,112	102,885	1,618,401
Worked	Percentage of Work Hours	2022	9.9%	29.0%	3.4%	0.7%	47.6%	3.2%	6.3%	100.0%
	Percentage of Work Hours	2023	10.1%	28.1%	3.4%	0.7%	48.4%	3.1%	6.4%	100.0%
	Lost Time Case Rate <sup>1</sup>	2022	3.9	0.0	0.0	0.0	0.3	4.1	0.0	0.6
Rates	Lost Time Case Rate	2023	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Rales		2022	5.3	0.0	0.0	0.0	0.5	4.1	0.0	0.9
	Frequency Rate <sup>2</sup> (Recordable)	2023	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6

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 l 2 The Frequency Rate is calculated by multiplying the number of recordable cases by 200,000 then dividing by the labor hours at the Universe of the Universe of the Case of the Universe of the Univ

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

The Bureau of Labor Statics 2021 Injury, Illness, and Fatalities, Table 1 reports for Colleges and Universities;

the average LOST TIME CASE RATE of days away from work was 0.6 and the average FREQUENCY RATE was 1.4.

# F. Disposal of Surplus property

Michigan Technological University Surplus Property Sales July 1, 2023 - August 31, 2023					
Date	Description		Amount		
07/11/23	Cardio Pulmonary Test Cart, COSMED, Quark CPet	\$	16,000.00		
07/11/23	Treadmill, Full Vision Inc, Trackmaster TMX425C		3,000.00		
07/11/23	Ergometer, Monark, Peak Bike Ergomedic 894E		3,000.00		
07/11/23	Motorized Tilt Table, Tri W-G Inc		3,000.00		
07/11/23	Respironics Actiwatches (Qty 22)		800.00		
07/11/23	Barbell Squat Rack, Weight Set, & Cable Attachment		400.00		
07/11/23	Clinical Analyzer, Abbott, Cholestech LDX		300.00		
Total		S	26,500.00		