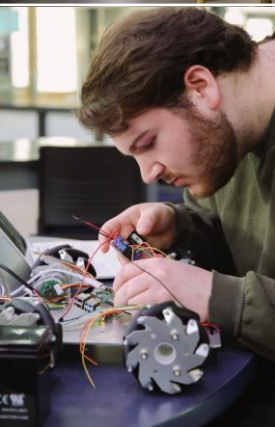


DREAMS IN PRACTICE



Welcome to the
University of Michigan-Dearborn

Ghassan Kridli

Dean of Engineering and Computer Science

July 2024



About UM-Dearborn

The University of Michigan-Dearborn is a caring, inclusive, student-focused institution. We are committed to excellence in teaching, learning, research and scholarship, as well as access, affordability and community impact. We emphasize practice-based learning, small class sizes, engaged faculty and a commitment to making a lasting impact in southeast Michigan, the nation and the world.

A UM-Dearborn Education Transforms Lives

- 8037** Total students enrolled in Fall 2023
- 3.7** Average High School GPA of incoming first year students
- 47%** First-generation college students
- 46%** Pell eligible
- 31%** Students of color
- 4** Colleges: Arts Sciences and Letters; Business; Education, Health and Human Service; and Engineering and Computer Science (**CECS**)



The College of Engineering and Computer Science is a Key Supplier of Talent and Resource for Economic Development



3,479 students

2,145 Undergraduate

1,224 Master's

110 Doctoral

4th Largest Engineering and Computer Science College in Michigan

- **1,033 Engineering and Computer Science degrees awarded in 2022/23**
- **25.6% Women**

2nd Largest graduate student enrollment in Michigan

Safe campus in a great community

Research Areas Focused on Contemporary Challenges



Cybersecurity



Sustainability



Advanced Mobility



Design Innovations



Robotics and AI



Electrification



Power Generation & Distribution



Bioengineering

UM-Dearborn is a Key Supplier of Talent and Resource for Economic Development

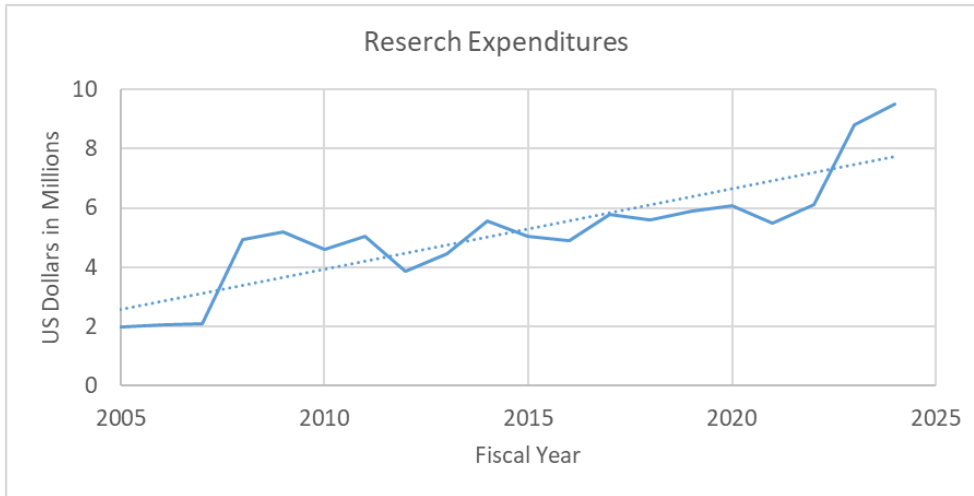


- \$9.7M in Research expenditures in 2023/2024
- **50% done with local industry**



Inventions and Patents

- Increasing with an expanded focus on *student generated IP*



502

INVENTION DISCLOSURES

205	Medical School	7	School of Nursing
205	Michigan Engineering	5	SEAS (School for Environment and Sustainability)
58	LSA (College of Literature, Science and the Arts)	4	Ross School of Business
27	College of Pharmacy	4	School of Information (UMSI)
16	School of Dentistry	3	SOE (School of Education)
12	Life Sciences Institute	2	Taubman College of Architecture and Urban Planning
12	U-M Dearborn	2	Michigan Law
9	School of Public Health	1	School of Kinesiology

Practice-Based Learning infused with Entrepreneurially-Minded Learning

- Practice-based learning (PBL) is a hallmark of a UM-Dearborn education.
- Characterized by courses that are interdisciplinary and collaborative, and where the student work has real-life applications
- Often results in outcomes relevant to campus and community stakeholders
- PBL takes many forms across our campus



Our Undergraduate Degree Programs Evolve to Meet the Changing Needs of Industry and the Region

Computer and Information Science

- B.S. in Computer and Information Science
- B.S. in *Cybersecurity & Information Assurance*
- B.S. in Data Science
- B.S. in Software Engineering

Industrial and Manufacturing Systems Engineering

- B.S.E. in Industrial & Systems Engineering
- B.S.E. in *Human-Centered Engineering Design*
- B.S.E. in Manufacturing Engineering

Electrical and Computer Engineering

- B.S.E. in Computer Engineering
- B.S.E. in Electrical Engineering
- B.S.E. in *Robotics Engineering*

Mechanical Engineering

- B.S.E. in Bioengineering
- B.S.E. in Mechanical Engineering

Graduate Programs are Aligned with Michigan's Talent Needs and the Flexibility Supports an Evolving Workforce

Master of Science *

- Artificial Intelligence
- Computer & Information Science
- Cybersecurity and Information Assurance
- Data Science
- Engineering Management
- Human-Centered Design & Engineering
- Information Systems & Technology
- Program & Project Management
- Software Engineering

Master of Science in Engineering *

- Automotive and Mobility Systems Engineering
 - Bioengineering
 - Computer Engineering
 - Electrical Engineering
 - Energy Systems Engineering
 - Industrial & Systems Engineering
 - Manufacturing Systems Engineering
 - Material Science and Engineering
 - Mechanical Engineering
 - Robotics Engineering
- MSE/MBA dual degrees:**
- Industrial & Systems Engineering and Business Administration

Doctoral Programs

Rackham Ph.D. Programs

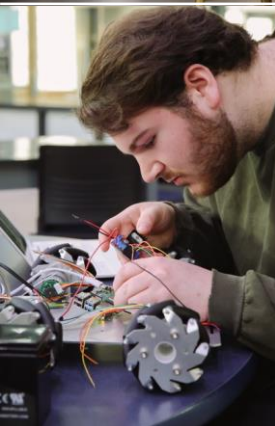
- Electrical, Electronics, & Computer Engineering
- Computer & Information Science
- Industrial & Systems Engineering
- Mechanical Sciences & Engineering

Doctor of Engineering (D.ENG) Program

- Automotive Systems & Mobility
- Electrical & Computer Engineering

* All these masters programs can be completed online (asynchronously) except for Bioengineering

DREAMS IN PRACTICE



Welcome to our Campus

Best wishes for a productive meeting