**PEOPLE**

Faculty, Staff, Alumni

- Faculty: 72
- Research Scientists: 17
- Postdoctoral Researchers: 46
- Visiting Researchers: 61
- Alumni: 18,000+

Undergraduate Students

- Electrical Engineering: 331
- Computer Engineering: 304

Graduate Students

- Electrical and Computer Engineering MSE: 415
- Electrical and Computer Engineering PhD: 288

**DEGREES AWARDED**

- Electrical Engineering BSE: 92
- Computer Engineering BSE: 98
- Electrical and Computer Engineering MSE: 292
- Electrical and Computer Engineering PhD: 49

**FACULTY HONORS**

- NAE Members: 7
- Endowed and Named Professors: 25
- Fellow Titles: 70
- CAREER/Young Investigator Awards: 60
- Education Awards: 66
- Innovation Awards: 30

**DIRECTORY**

**Administration**

Chair:
Mingyan Liu
(mingyan@umich.edu)

Senior Associate Chair:
Dennis Sylvester (dmcs@umich.edu)

Associate Chair of Undergraduate Affairs:
Jamie Phillips (jphill@umich.edu)

Associate Chair of Graduate Affairs:
Heath Hofmann (hofmann@umich.edu)

Administrative Manager:
Lisa Armstrong (lisa@umich.edu)

**Program Coordinators**

Undergraduate Program:
Catie Lenaway (lenaway@umich.edu)

PHD Degree Program:
Kristen Thornton [thorntok@umich.edu]

Master’s Degree Program:
Johnny Linn [johnlinn@umich.edu]

**CONTACT US**

Electrical and Computer Engineering
Department of Electrical Engineering
and Computer Science

1301 Beal Avenue, Ann Arbor, MI 48109-2122
(734) 764-2390 - General Information
(734) 764-3317 - Office of the Chair
(734) 936-2965 - Communications
(734) 764-9245 - Alumni Engagement + Events
(734) 764-7899 - Alumni + Corporate Relations


ECE.ENGIN.UMICH.EDU
Michigan ECE has a rich history, offering academic programs in electrical engineering since 1889 and computer engineering since 1971.

ACADEMIC PROGRAMS

Undergraduate Programs
- Electrical Engineering (BSE)
- Computer Engineering (BSE)
- Electrical Engineering (minor)

Graduate Programs
- Electrical and Computer Engineering (MSE)
- Electrical and Computer Engineering (PHD)

Related Graduate Certificate Programs
- Computational Discovery and Engineering
- Plasma Science & Engineering
- Data Science
- Engineering Education Research
- Precision Health

RESEARCH AREAS

Applied Electromagnetics & RF Circuits
Computer Vision
Control Systems
Embedded Systems
ECE Education Research
Integrated Circuits and VLSI
MEMS and Microsystems
Network, Communication and Information Systems
Optics & Photonics
Plasma Science & Engineering
Power & Energy
Quantum Science & Technology
Robotics & Autonomous Systems
Signal & Image Processing and Machine Learning
Solid-State Devices & Nanotechnology

RESEARCH

Externally Funded Research Expenditures
$50M (FY19)

TECH TRANSFER

- 56 Invention Disclosures (FY19)
- 56 U.S. Patents (FY19)
- 17 License Agreements (FY19)
- 22 Startups (Since 2010)

MAJOR RESEARCH CENTERS AND LABS

Center for Dynamic Magneto-Optics (DYNAMO)
Stephen Rand, Director

Center for Microwave Sensor Technology
Kamal Sarabandi, Director

Center for Photonics and Multiscale Nanomaterials
Anthony Grbic, Director

Center for Wireless Integrated MicroSensing & Systems (WIMS²)
Yogesh Gianchandani, Director

DOE Plasma Science Center
Mark Kushner, Director

The Gérard Mourou Center for Ultrafast Optical Science
Karl Krushelnick, Director

MAJOR RESEARCH PROJECTS

Bipedal Robotics
Jessy Grizzle, PI

Domain-Focused Advanced Software-Reconfigurable Heterogeneous System on Chip
Hun-Seok Kim, PI

Dynamic Cyber-Physical Systems
Jessy Grizzle, PI

Fully-Autonomous System on Chip Synthesis
David Wentzloff, PI

High-Performance MEMS Vibratory Gyroscope
Khalil Najafi, PI

Instrumentation for Coherent Control of Magneto-electric Energy
Stephen Rand, PI

International Program for the Advancement of Neurotechnology (IPAN)
Euisik Yoon, Director

Michigan Integrated Circuits Laboratory (MICL)
David Blaauw, Director

Michigan Power & Energy Lab (MPEL)
Ian Hiskens, Director

Multimodal Integrated Neural Technologies (MINT)
Euisik Yoon, Director

Optics & Photonics Laboratory
Ted Norris, Director

Radiation Laboratory
Kamal Sarabandi, Director

Lurie Nanofabrication Facility (LNF)
Jamie Phillips, Director

Michigan Micro Mote (M3)
David Blaauw and Dennis Sylvester, PI’s

Organic Electronics, LED’s, Photovoltaics
Stephen Forrest, PI

Micromachined Sensors and Actuators
Yogesh Gianchandani, PI

MURI: Multiscale Network Games of Collusion and Competition
Mingyan Liu, PI

MURI: Value-centered Information Theory for Adaptive Learning, Inference, Tracking and Exploitation
Al Hero, PI

Reducing Student Resistance to Active Learning
Cindy Finelli, PI

Scalable Quantum Engineering and Manufacturing
Zetian Mi, PI

Sparse Adaptive Local Learning for Sensing and Analytics
Wei Lu, PI

RANKINGS

Our undergraduate and graduate programs are ranked between 6 and 7 in the nation by U.S. News & World Report. The University of Michigan has 102 programs ranked in the top 10 in the nation, including Law, Medicine, and Business; 10 are in the College of Engineering.