SNAPSHOT

2023 v3

ELECTRICAL AND COMPUTER ENGINEERING

TOP THINGS TO KNOW

Our faculty, staff and students work collaboratively to address some of society's most complex technological challenges, and we are globally known for our innovative research advances. Our diverse faculty—more than 27% of whom are women—are leaders or affiliates of nine research centers and institutes at UW-Madison. Their innovations make an impact in areas ranging from energy sustainability and advanced materials and design to machine learning in healthcare. And in the past six years alone, ECE faculty have received 140 patents and disclosed nearly 200 inventions.
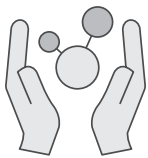
Students at every stage of their educational career benefit from engaging classroom experiences with exceptional instructors; state-of-the-art instructional, lab and design spaces; and opportunities to conduct research. Our faculty members have earned prestigious honors for their teaching excellence including Chancellor's Distinguished teaching Awards and national/international teaching recognitions from the IEEE Education Society.

As the largest department in the College of Engineering, we have grown an alumni base of over 12,000 ECE Badgers. Whether overseeing Qualcomm's technical roadmaps for wireless chipsets, creating new technologies that enables deaf and hard-of-hearing people to communicate, serving as the first woman president of the IEEE Engineering in Medicine and Biology Society, or leading as CEO of Rockwell Automation, our alumni have made extraordinary contributions to the lives of people throughout the world.

STUDENT ENROLLMENT

435
UNDERGRADUATE
Electrical engineering

624
UNDERGRADUATE
Computer engineering

254
GRADUATE
Electrical & computer engineering

178
PHD
Electrical & computer engineering

NATIONAL PUBLIC RANKING
according to U.S. News & World Report

Electrical engineering

14th
UNDERGRADUATE

9th
GRADUATE

Computer engineering

12th
UNDERGRADUATE

9th
GRADUATE

DEGREES OFFERED

BS
- Computer Engineering
- Computer Engineering: Machine Learning and Data Science
- Electrical Engineering
- Electrical Engineering: Machine Learning and Data Science

PhD
- Electrical and Computer Engineering

MS
- Electrical and Computer Engineering: Research
- Electrical and Computer Engineering: Machine Learning and Signal Processing (accelerated 12–16 month program)
- Electrical and Computer Engineering: Professional (accelerated 12–16 month program)
- Electrical and Computer Engineering: Power Engineering (online)

STARTING SALARIES AND PLACEMENT*

$76K+
UNDERGRADUATE
Electrical engineering

$94K+
UNDERGRADUATE
Computer engineering

96%
PLACEMENT

Undergraduates placed in a job or post-graduate studies within a year of graduation

*approximate per year

$19.6M+
ANNUAL RESEARCH FUNDING

ACCOMPLISHED FACULTY

26
National Science Foundation Career Award recipients

3
Presidential Early Career Award for Scientists and Engineers (PECASE) recipients

26
Fellows of IEEE and other societies

RESEARCH AREAS

Applied Electromagnetics and Acoustics

Communications, Networks, Privacy and Security

Computer Systems and Architecture

Plasma Science and Fusion Energy

Machine Learning, Signal Processing, and Information Theory

Solid-state Electronics and Quantum Technologies

Optics and Photonics

Energy Systems

Optimization and Control

RESEARCH FACILITIES

HSX – Helically Symmetric eXperiment

Materials Research Science and Engineering Center

Wisconsin Centers for Nanoscale Technology
- Nanoscale Fabrication Center
- Soft Materials Characterization Lab
- Nanoscale Imaging and Analysis Center

Wisconsin Electric Machines and Power Electronics Consortium (WEMPEC)

Wisconsin Energy Institute

Wisconsin Institute for Discovery

Power Systems Engineering Research Center

Center for High Throughput Computing

Wide-Bandgap Materials and Devices Lab with III-Nitride MOCVD Reactor

DEPARTMENT CHAIR

Susan Hagness
Philip Dunham Reed Professor and Department Chair

(608) 265-5739
susan.hagness@wisc.edu

Visit us on the web.

Department of Electrical and Computer Engineering
UNIVERSITY OF WISCONSIN–MADISON