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.
### DEGREES OFFERED

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

**MS**
- Electrical and Computer Engineering
- Electrical and Computer Engineering: Research
- Electrical and Computer Engineering: Machine Learning and Data Science
- 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)

**PhD**
- Electrical and Computer Engineering

### 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

### 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

### ANNUAL RESEARCH FUNDING

$19.6M+

### ACHIEVEMENTS

**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 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**
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Visit us on the web.