THE UNIVERSITY OF WISCONSIN-MADISON
ELECTRICAL & COMPUTER ENGINEERING

DEPARTMENT INFORMATION

DEPARTMENT CHAIR

Susan Hagness
Philip Dunham Reed Professor
(608) 265-5739
ecechair@engr.wisc.edu

U.S.News & WORLD REPORT

UNDERGRADUATE RANKING		GRADUATE RANKING	
Electrical Engineering	Computer Engineering	Electrical Engineering	Computer Engineering
17	14	16	12

DEGREES IN ELECTRICAL & COMPUTER ENGINEERING

- Bachelor of Science in Computer Engineering (BS)
- Bachelor of Science in Electrical Engineering (BS)
- Master of Science in Electrical Engineering - Research (MS)
- Master of Science in Electrical Engineering - Machine Learning & Signal Processing (MS) – Accelerated
- Master of Science in Electrical Engineering - Professional (MS) – Accelerated
- Master of Science in Electrical Engineering - Power (MS) – Online
- Doctor of Philosophy in Electrical Engineering (PhD)

25 UW-Madison is ranked 25th in the world by the Center of World University Rankings

ECE ENROLLMENT (2019-2020)

941	346
Undergraduate students	Graduate students

JOB PLACEMENT

- **97%** job placement for ECE undergrads in 2018-2019.
- **$70,000 - $80,000** Median starting salary for electrical and computer engineering undergraduate students.
- **$113,500 - $ 117,000** Median starting salary for electrical and computer engineering graduate students.

DEGREES CONFERRED (ACADEMIC YEAR 2018-2019)

203	86
Undergraduate	Graduate

STUDENT ACHIEVEMENT

- Our student organizations give participants the opportunity to take lessons learned in the classroom and apply them to real-world challenges while meeting student teams from around the world.
- The private space exploration company SpaceX hosts their signature annual hyperloop pod contest. The rules are simple: the fastest pod takes top prize. The UW-Madison Badgerloop team is comprised of a multi-disciplinary team of students who design and create a pod for this competition. The Badgerloop team has consistently been one of the top U.S. teams at the competition, taking home innovation awards during the first two contests and being invited to make an additional presentation to SpaceX leadership in years past.

INDICATORS OF QUALITY

44 TENURED OR TENURE-TRACK FACULTY AS OF JANUARY 2020

15
IEEE FELLOWS

3
OPTICAL SOCIETY OF AMERICA FELLOWS

3
AMERICAN PHYSICAL SOCIETY FELLOWS

11
NATIONAL SCIENCE FOUNDATION CAREER AWARD RECIPIENTS
IN 2018, 2019, 2020

3
RECIPIENTS OF THE PRESIDENTIAL EARLY CAREER AWARD FOR SCIENTISTS & ENGINEERS
(PECASE)

300+
INVENTION DISCLOSURES
SINCE 2014

$20M
IN RESEARCH EXPENDITURES
IN FY2019

RESEARCH EXCELLENCE

Our faculty, staff, and students are working together to address some of the most complex societal challenges in achieving sustainable electrical energy solutions, new technologies that advance human health, and enhanced security in our digitally networked world – just to name a few.

OUR INTERNATIONALLY RENOWNED RESEARCH ACTIVITIES SPAN NINE CORE AREAS:

- Communications, Networks, Privacy, & Security
- Machine Learning, Signal Processing, & Information Theory
- Solid-State Electronics & Quantum Technologies
- Energy Systems
- Optics & Photonics
- Optimization & Control
- Plasma Science & Fusion Energy
- Applied Electromagnetics & Acoustics
- Computer Systems & Architecture

TEACHING EXCELLENCE

Our award-winning instructors are pioneers of high-impact educational innovations in ECE.

Students learn how to design and fabricate printed circuit boards using modern CAD tools in our "Introduction to Microprocessor Laboratory."

SCHOLARSHIPS

>50
ECE SCHOLARSHIPS AVAILABLE EACH YEAR

~$500K
AWARDED OVER THE PAST 2 YEARS

TOP 1%
Our *Academic Analytics* ranking among all U.S. ECE departments in research funding per faculty member

TOP 10%
Our *Academic Analytics* ranking among all U.S. ECE departments for faculty with recent research publications

TOP 15%
Our *Academic Analytics* ranking among all U.S. ECE departments for number of faculty with prestigious national awards