

# ELECTRICAL ENGINEERING

Electrical engineers are at the forefront of developing technologies to improve and enhance our society. They are involved with understanding the fundamentals of nature to improve design methods and techniques, as well as applying their creativity to solving challenging problems.

Electrical engineers design and analyze systems for supplying electric power; navigation systems for automobiles, aircraft, and spacecraft; audio and visual communication systems; and systems for information processing and computing.

The major in electrical engineering provides the undergraduate student with a broad understanding of the many areas within the field of electrical engineering. At the same time, the curriculum provides a choice of technical electives designed to strengthen the student in a chosen area of specialization.

## Mission Statement

The Department of Electrical Engineering is committed to outstanding undergraduate and graduate education, distinguished research programs, and strong service to our students, professional and technical societies, and the community.

## Programs

- Artificial Intelligence and Machine Learning, Graduate Certificate (Department of Electrical Engineering) (<https://catalog.uwm.edu/engineering-applied-science/electrical-engineering/artificial-intelligence-machine-learning-graduate-certificate/>)
- Electrical Engineering, BSE (<https://catalog.uwm.edu/engineering-applied-science/electrical-engineering/electrical-engineering-bse/>)
- Electrical Engineering, Minor (<https://catalog.uwm.edu/engineering-applied-science/electrical-engineering/electrical-engineering-minor/>)
- Electrical Engineering, PhD (<https://catalog.uwm.edu/engineering-applied-science/electrical-engineering/electrical-engineering-phd/>)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Brian Armstrong	Professor, Co-Chair	PhD	Stanford University	✓	
John T. Boyland	Professor, Co-Chair	PhD	University of California, Berkeley	✓	
Christine T. Cheng	Associate Professor	PhD	Johns Hopkins University	✓	
Robert Cuzner	Associate Professor	PhD	University of Wisconsin-Madison	✓	
Adrian Dumitrescu	Professor	PhD	Rutgers, The State University of New Jersey		✓
Mukul Goyal	Associate Professor	PhD	Ohio State University	✓	
George Hanson	Professor	PhD	Michigan State University		✓
Seyed Hosseini	Professor	PhD	University of Iowa		✓
Yi Hu	Associate Professor	PhD	University of Texas at Dallas	✓	
Charles E. Kahn Jr.	Adjunct Professor	MD	University of Illinois at Chicago		
Nikolai A. Kouklin	Professor	PhD	University of Nebraska - Lincoln	✓	
Robert J. Krueger	Professor	PhD			✓
Chiu T. Law	Associate Professor	PhD	Purdue University	✓	
Amol D. Mali	Associate Professor	PhD	Arizona State University	✓	
David McClanahan	Faculty Associate	MSEE	University of Wisconsin-Milwaukee		✓
Susan McRoy	Professor	PhD	University of Toronto	✓	
Devendra K. Misra	Professor	PhD	Michigan State University	✓	
Ethan V. Munson	Professor	PhD	University of California, Berkeley	✓	
Ali Reza	Professor	PhD			✓
Ichiro Suzuki	Professor	PhD	Osaka University, Japan		✓
Lingfeng Wang	Professor	PhD	Texas A&M University	✓	
Weizhong Wang	Associate Professor	PhD	University of Maryland, College Park	✓	
Guangwu Xu	Associate Professor	PhD	University at Buffalo, SUNY		✓
David C. Yu	Professor	PhD	University of Oklahoma		✓
Zeyun Yu	Associate Professor	PhD	The Ohio State University	✓	
Jun Zhang	Professor	PhD	Rensselaer Polytechnic Institute	✓	
Tian Zhao	Associate Professor	PhD	Purdue University	✓	