

ELECTRICAL & COMPUTER ENGINEERING GRADUATE PROGRAMS



Electrical and Computer Engineering graduate programs offer a number of collaborative, interdisciplinary research opportunities. Our students have access to state-of-the-art laboratories and a network of faculty conducting world-class research in diverse specialties. Research and instruction in the ECE department prepares students for success in some of the most exciting industries or in academia.

During recent years, ECE has experienced unprecedented growth:

- Tripled the number of Ph.D. students enrolled in the last six years.
- In the last 15 years, the number of faculty in the department has more than doubled to 44 members.

The ECE department also offers an online master's program suitable for working professionals and those living out-of-state by offering them the same rigorous courses that students take on-campus. For more information, visit online at ecemsonline.utah.edu

Student financial support is available through fellowships, research and teaching assistantships. Eligible students may receive paid tuition.

Application fees: Ph.D. (domestic) - Free; Ph.D. (international) - \$65; MS (domestic)- \$55; MS (international) - \$65

JOHN AND MARCIA PRICE COLLEGE OF ENGINEERING

With strong support from the State of Utah, the college has significantly grown its facilities, equipment, and faculty. In 2023, we awarded 561 master's and doctoral degrees and reached more than \$106 million in engineering-related research expenditures (including sub awards).

LIVING IN UTAH

Known for its world-class skiing, hiking, and other outdoor adventures, Utah is more than just place to appreciate the wonders of nature. Salt Lake City and the surrounding area is brimming with arts and culture, including fine dining, a diverse music scene, the Sundance Film Festival, and endless other entertainment options.

Utah also took the top spot in U.S. News and World Report's "Best States" ranking for 2023. National highlights include:

- #1 Economy
- #1 Job Growth
- #1 Low Debt at Higher Ed Graduation
- #1 Growth of Young Population

RESEARCH STRENGTHS

Communications

Wireless Communication, Information Theory, Coding, 5G and Beyond

Image and Signal Processing

Image recognition, Health Monitoring, Machine Learning

Computer Engineering and VLSI

Embedded Systems, Computer Architecture, VLSI, Machine Learning, Artificial Intelligence

Power and Energy

Smart Grid, Renewable Energy Systems, Grid Resilience and Security

Control and Robotics

Cyber-Physical Systems, Brain-Computer Interfaces, Rehabilitation Robotics, Microrobots, Swarm Robotics, Biomimetics

Electronic Devices and Materials

Integrated Circuits, Analog Sensing and Computing, RF Circuits, Neural Interfaces

Microwaves and Electromagnetics

RF Systems, Antennas, Bioelectromagnetics, Space Weather Hazards

Optics and Optoelectronics

Computational Optics, Biomedical Optics, Ultrafast and THz Optics, Novel Materials and Devices, Nanophotonics

Electronic Circuits and Systems

Integrated Circuits, Advanced Neural Interfaces

Micro-Nano-Electro-Mechanical Systems

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Department of
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