

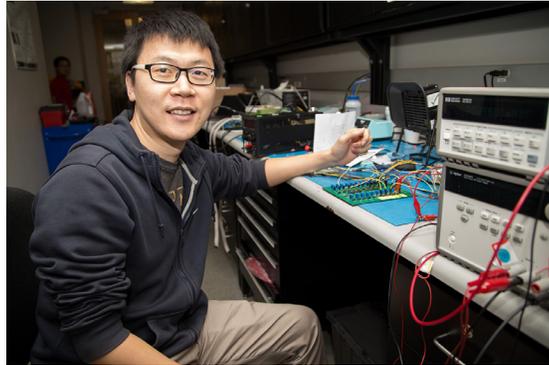
Erik Jonsson School of Engineering and Computer Science

Master of Science in Electrical Engineering



Curriculum

The MS in Electrical Engineering degree program prepares students for leadership roles in research, development and design positions that require the use of skillful and imaginative solutions to engineering problems. It provides intensive preparation for professional practice in a broad spectrum of high-tech areas of electrical engineering. It is designed to serve the needs of engineers who wish to continue their education. The program offers five concentration areas to choose from: circuits, computing systems, devices, power electronics and energy systems, and signals and systems.



Research opportunities are available in broad areas of communications and signal processing; mixed-signal IC design; digital systems; power electronics; microelectronics and nanoelectronics; optics; optoelectronics; light-wave devices and systems; RF and microwave systems; VLSI design; power electronics; renewable energy; vehicular technology, control theory, robotics and wireless communications.

The University maintains a large network of computer facilities, including PCs, Unix work stations and specialized computers for research within the program and faculty laboratories. The Jonsson School has developed a state-of-the-art information infrastructure consisting of a wireless network in all buildings and an extensive fiber-optic Ethernet.

Career Options

Graduates of the program seek positions such as: Electrical Engineer, Electrical Design Engineer, Circuits and Design Engineer, Communications and Signal Processing Engineer, Digital Systems Engineer, Systems Engineer and RF and Microwave Engineer. EE graduates find employment in local, national and international enterprises.

Degree Program

The MS in Electrical Engineering requires the completion of a minimum 33 semester credit hours. Both thesis and non-thesis options are available and can be pursued in full-time or part-time basis.

Financial Support

Various financial supports are available to qualified MS students, including Teaching and Research Assistantships, fellowships and scholarships. MS students who have been offered teaching or research assistantship are expected to pursue the thesis option under a faculty's guidance.

Internships

The Jonsson School operates one of the largest internship and cooperative education program of its kind, averaging more than 1,200 undergraduate and graduate placements a year at high-technology companies. A large number of MS students apply and work in companies as an intern after two semesters in their MS program.

For admission and degree requirements, view the Graduate Catalog at catalog.utdallas.edu.

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