

Erik Jonsson School of Engineering and Computer Science

Doctor of Philosophy in Electrical Engineering



The PhD in Electrical Engineering program offers intensive preparation in design, programming, theory and applications. Training is provided for both academically oriented students and students with professional goals in the business, industrial and governmental occupations requiring advanced knowledge of modern electrical engineering.

The program prepares individuals to perform original, leading-edge research in the 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. Due to our strong collaborative programs with Dallas-area high-tech companies, significant emphasis is placed on preparation for research and development positions in these specialized industries.

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.

Program Description

The PhD in Electrical Engineering requires 75 semester credit hours minimum beyond the baccalaureate degree. Full-time and part-time plans are available for professionals seeking an advanced degree. PhD students are expected to complete a major research project culminating in a dissertation.

Various financial support are available to qualified PhD students, including Teaching and Research Assistantships, fellowships and scholarships.

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 PhD students apply and work in companies as an intern after two semesters in their PhD program.

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

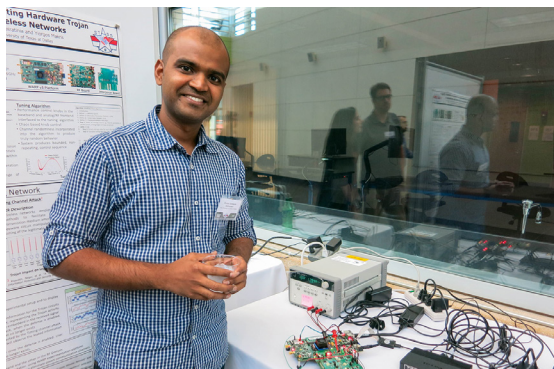
Career Opportunities

Graduates of the program seek positions such as: Professor, Research and Development Engineer and Consulting Engineer in the public and private sectors. EE graduates find employment in local, national and international enterprises.

Marketable Skills

Upon successful completion of the PhD in Electrical Engineering, graduates will be able to enter the workforce with the following skills:

- Advanced understanding of Electrical Engineering
- Ability to propose and develop novel solutions to Electrical Engineering problems
- Ability to lead original research and development in Electrical Engineering
- Ability to teach/mentor in the Electrical Engineering field



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