

Erik Jonsson School of Engineering and Computer Science

Doctor of Philosophy in Computer Engineering



Curriculum

The PhD in Computer 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 computer theory and technology.

Courses and research are offered in a variety of subfields of computer engineering, including operating systems, computer architecture, computer graphics, pattern recognition, artificial intelligence, machine learning, embedded systems, computer networks, software systems, analysis of algorithms, parallel processing, VLSI, computational geometry, design automation, cyber security, information assurance and data science.

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: Professor; Researcher and Consulting Engineer in the public and private sectors. CE graduates find employment in local, national and international enterprises.

Degree Program

The PhD in Computer 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.

Financial Support

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

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 including Texas Instruments, Intel, Raytheon, IBM, Amazon, Apple and Google. 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.



Contact Information

CE/TE Program Dinesh Bhatia

Email: dinesh@utdallas.edu
Phone: 972-883-2386
Office: ECSN 4.926

Graduate Program Information Rosarita Lubag

Email: ecegradprogram@utdallas.edu
Phone: 972-883-2139
Office: ECSN 4.524

ece.utdallas.edu