



TEXAS TECH UNIVERSITY

Department of Electrical & Computer Engineering™

ELECTRICAL AND COMPUTER ENGINEERS work with electronics, communications, integrated circuits and computers—from generating electrical power for the national grid, novel integrated circuits for wireless communications, to designing the smallest computer chip in your cell phone – the creativity of electrical and computer engineers provide the energy for our lives. Electrical and computer engineers identify, analyze and solve engineering problems by applying knowledge of mathematics, science, and engineering.



DEGREES

- Bachelor of Science in Electrical Engineering
- Bachelor of Science in Computer Engineering
- Combined B.S./M.S. Degree (150-Hour Program)
- Master of Science in Electrical Engineering
- Doctor of Philosophy in Electrical Engineering

NATIONAL RECOGNITION *U.S. News and World Report* recently ranked the department 65th in the Computer Engineering category and 69th in the Electrical - Electronics - Communications category out of 1,200 programs.

CURRICULUM The department provides a solid education in the fundamentals, encouraging students to think analytically, and helping them learn how to learn. Exciting internships and co-op programs provide valuable, real-world experiences that complement academic studies, while contributing to career preparation. Graduate students can pursue a Master of Science in Electrical Engineering or a Doctor of Philosophy.

ENROLLMENT AND SCHOLARSHIPS A number of competitive scholarships are available for undergraduate students ranging from \$1,000 to \$5,000 per year. Many graduate scholarships and fellowships are available for exceptional students. The department is home to approximately 450 undergraduates, 150 graduate students, and 27 faculty members.

CONTACTS

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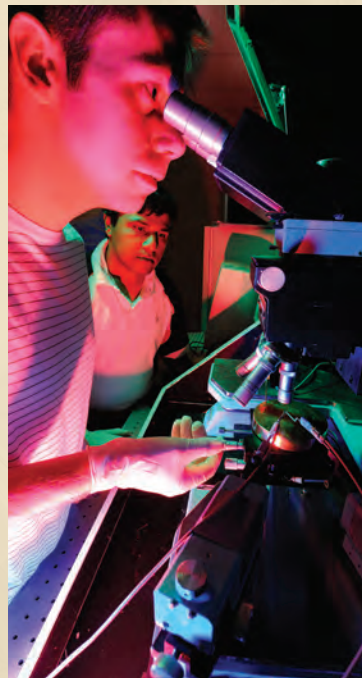
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PROJECT LABORATORIES A unique undergraduate five-course sequence of stand-alone project laboratory courses incorporate material learned in lectures with the laboratory. Students design, develop, construct and evaluate a system, which is then assessed by faculty advisors based on finished products, written reports, and oral presentations. The laboratory courses give students considerable experience in working closely with others in real-world situations and solving open-ended design problems.

RESEARCH OPPORTUNITIES Undergraduate and graduate students have the opportunity to be involved in cutting-edge research through senior project laboratories and individual studies with faculty.

Topics include sustainable energy systems, pulsed power and power electronics, embedded computer systems, communications, signal/image processing, semiconductor devices, microelectronics, micro-electro-mechanical systems (MEMS), biomedical, nanophotonics, and robotics.

DIVERSE CAREER OPTIONS Valuable advising programs and placement opportunities help students prepare for success.

Graduates are recruited in a variety of fields including telecommunications, energy and electrical power, semiconductors, computers, aerospace, transportation and automotive, bioengineering, manufacturing and the service industry, as well as education and research. Employers include Texas Instruments, Lockheed Martin, NASA, ExxonMobil Raytheon, Intel, National Instruments, Qualcomm, and the national laboratories.