

Departmental Information

Department of Electrical and
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Admissions Information

Application forms are available from:

UT Office of Undergraduate Admissions
320 Student Services Building
Knoxville, TN 37996-0230
Phone: (865) 974-2184
Toll free: (800) 221-8657
Online: » admissions.utk.edu/undergraduate

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UT does not discriminate on the basis of sex or handicap in its educational programs and activities pursuant to requirements of Title IX of the Education Amendments of 1972, Public Law 92-318; and Section 504 of the Rehabilitation Act of 1973, Public Law 93-112; and the Americans with Disabilities Act of 1990, Public Law 101-336, respectively. This policy extends to both employment by and admission to the university.

Inquiries concerning Title IX, Section 504, and the Americans with Disabilities Act of 1990 should be directed to the Office of Equity and Diversity, 1840 Melrose Avenue; The University of Tennessee; Knoxville, Tennessee 37996-0144; (865) 974-2498. Charges of violation of the above policy also should be directed to the Office of Equity and Diversity.

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THE UNIVERSITY of TENNESSEE



College of Engineering

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electrical and computer engineering

GUIDE FOR PROSPECTIVE STUDENTS



www.ece.utk.edu

A Message from the Department Head

Thank you for your interest in the Department of Electrical and Computer Engineering (ECE) at the University of Tennessee.

ECE offers two undergraduate programs accredited by the ABET Engineering Accreditation Program: the Bachelor in Electrical Engineering and the Bachelor in Computer Engineering.

Our faculty's diverse areas of expertise provide many opportunities for specializations in both electrical and computer engineering.

The campus is located within the vicinity of the Oak Ridge National Laboratory (ORNL). Our department sustains a strong link with ORNL's efforts to advance the nation's energy resources, scientific knowledge, educational foundations and economic competitiveness. Current research expenditures for ECE exceed \$6 million per year, which emphasizes the productivity of our faculty. We provide many opportunities for undergraduates to work on research projects with professors.

As you begin planning a career in engineering, we hope you will consider UT's Department of Electrical and Computer Engineering as one of the first steps on the road to success.

Sincerely,

Dr. Samir M. El-Ghazaly, ECE Department Head



What is Electrical and Computer Engineering?

Electrical and computer engineering deals with the application of physical laws governing charged particles. This field, from tiny computer chips to massive power systems spanning international boundaries, impacts countless aspects of modern life.

As an electrical engineering student at UT, you will study digital and analog electronic devices, power systems, control systems and plasma technology. Computer engineering majors will focus on hardware design, communications and information systems, digital signal processing and image processing.

Electrical and computer engineers are technological leaders in the field. Employment opportunities range from nationally prominent corporations to small technology firms. ECE graduates



also frequently become entrepreneurs, creating their own companies!

Job prospects for students with a bachelor's degree in electrical or computer engineering are excellent. If you would like specific information on job fairs, salaries and career opportunities, visit the

UT Career Services web site at www.career.utk.edu.

Department Resources

The UT Department of Electrical and Computer Engineering has a highly successful group of professors who have won many awards for outstanding teaching and research.

Most of the electrical and computer engineering instruction takes place in the technologically advanced classrooms and labs of Ferris Hall. The department also occupies a significant amount of space in the adjacent Science and Engineering Research Facility and benefits from a number of laboratories that support the undergraduate teaching program.

Academic Advantages

All UT freshman engineering students are automatically enrolled in the innovative **Engage** Engineering Fundamentals Program. Here you will learn basic engineering concepts and teamwork skills through a series of hands-on projects and activities. » www.engr.utk.edu/efd

The **Office of Professional Practice** offers opportunities for you to gain hands-on experience in business and industry through paid positions and internships. » www.coop.utk.edu

The College of Engineering also participates in the **University Honors Program**, which is designed to give academically outstanding students a unique undergraduate experience consisting of special courses, seminars, mentoring and research projects. » honors.utk.edu

The **UT Center for International Education** collaborates with the College of Engineering to create opportunities for engineering studies in other countries. » web.utk.edu/~global



Financial Support

The HOPE Scholarship Program provides financial support to qualified high school students from Tennessee who wish to attend an in-state university. » www.collegepaystn.com

The ECE department offers a generous undergraduate scholarship program. » www.ece.utk.edu

The college and the university also offer a number of scholarship opportunities. » web.utk.edu/~finaid and » www.engr.utk.edu/coe/undergraduate/scholarships.html

The college provides special scholarships and support programs to minority students:

- The **Diversity Engineering Scholarship Program (DESP)** » www.engr.utk.edu/desp
- The **Office of Engineering Diversity Programs (EDP)** » www.engr.utk.edu/edp
- The **Tennessee Louis Stokes Alliance for Minority Participation (TLSAMP)** » www.engr.utk.edu/tlsamp

