

Departmental Information

Department of Nuclear Engineering
315 Pasqua Hall
Knoxville, TN 37996-2300
Phone: (865) 974-2525
Fax: (865) 974-0668
E-mail: utne@utk.edu
Online: www.engr.utk.edu/nuclear

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 NE department offers a generous undergraduate scholarship program. » www.engr.utk.edu/nuclear

The college and the university also offer a number of scholarship opportunities. » web.utk.edu/~finaid
» 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

The University of Tennessee does not discriminate on the basis of race, sex, color, religion, national origin, age, handicap or veteran status in provision of educational opportunities or employment opportunities and benefits.

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.

THE UNIVERSITY of TENNESSEE



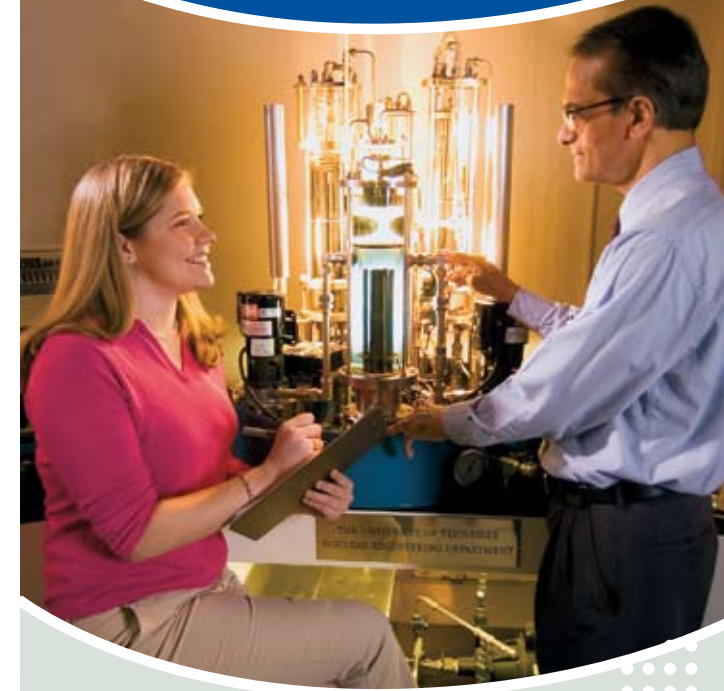
College of Engineering

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THE UNIVERSITY of TENNESSEE 
College of Engineering

nuclear engineering

GUIDE FOR PROSPECTIVE STUDENTS



*UT Nuclear Engineering Faculty and Students
Working Together for a Better Tomorrow*

www.engr.utk.edu/nuclear

A Message from the Department Head

We appreciate your interest in the Department of Nuclear Engineering (NE). Founded in 1957, the department is one of the oldest and most prestigious engineering programs in the country. Our undergraduate program is the third largest in the United States based on total student enrollment and has been continuously accredited by the ABET Engineering Accreditation Program. Our graduate program was recently ranked 11th in the nation by *U.S. News & World Report*.

If you find neutrons, alphas, betas and gammas fascinating, and have a desire to improve the quality of life, then nuclear engineering may be the right course of study for you.

For more information about our program, please visit our web site (www.engr.utk.edu/nuclear) or send an e-mail request to utne@utk.edu. If you plan to visit our campus, please call (865) 974-2525 to arrange a personal tour. We look forward to hearing from you.

Sincerely,
Dr. Lee Dodds, IBM Professor and NE Department Head



What is Nuclear Engineering?

Nuclear engineering as a discipline focuses on the application of subatomic processes for the benefit of society.

The Department of Nuclear Engineering at UT offers B.S., M.S. and Ph.D. degrees in two major areas of concentration—traditional nuclear engineering and radiological engineering:

- Traditional nuclear engineering involves reactor system analysis, design and operation, including maintenance and reliability; fissile material safety; radiation shielding; artificial intelligence; and instrumentation and controls.
- Radiological engineering involves the design and safe utilization of radiation and radioisotopes in industry and medicine. This concentration includes health physics and medical physics and satisfies nearly all requirements for medical, dental and veterinary schools.



Practical applications of nuclear engineering include:

- Production of electric power with essentially no air pollution
- Diagnosis and treatment of diseases such as cancer
- Identification of materials including environmental pollutants and contaminants
- Preservation of food and sterilization of medical supplies
- Production of radioisotope gauges for use in manufacturing processes
- Development of nuclear measurement techniques for oil well logging and airport security
- Generation of radioisotope power for deep space exploration

Nuclear engineers are among the highest paid engineers in the nation. A partial list of prospective employers includes Argonne National Laboratory, Bettis/Knolls Atomic Power Laboratories, Duke Energy, Entergy, Framatome, General Electric, Hospitals, Los Alamos National Laboratory, NASA, Oak Ridge National Laboratory, Savannah River National Laboratory, Sun Microsystems, Sloan-Kettering Cancer Center, Tennessee Valley Authority and Westinghouse.

Department Resources

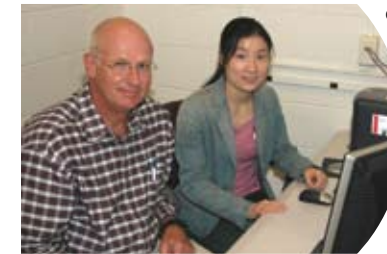
Located in Pasqua Hall, UT's Nuclear Engineering program offers a vibrant academic environment. Opportunities exist for undergraduate and graduate students to gain vital hands-on experience working on advanced research projects both on campus and at the nearby **Oak Ridge National Laboratory**. There are also opportunities to interact with industry leaders and collaborate with researchers from around the globe.

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 educational 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

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

