

Departmental Information

Department of Materials Science and Engineering
414 Ferris Hall
The University of Tennessee
Knoxville, TN 37996-2100
Phone: 865-974-5336
Fax: 865-974-4115
Email: mse@utk.edu
Online: www.engr.utk.edu/mse



Admissions Information

Application forms are available from:
UT Office of Undergraduate Admissions
320 Student Services Building
Knoxville, TN 37996-0230
Phone: 865-974-2184
Online: admissions.utk.edu/undergraduate

The University of Tennessee is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA institution in the provision of its education and employment programs and services. All qualified applicants will receive equal consideration for employment without regard to race, color, national origin, religion, sex, pregnancy, marital status, sexual orientation, gender identity, age, physical or mental disability or covered veteran status.

Publication Authorization Number: E01-1315-xxx-xx DOP: 10/15



DEPARTMENT OF MATERIALS
SCIENCE & ENGINEERING

Department of Materials Science and Engineering
414 Ferris Hall
Knoxville, TN 37996-2100



THE UNIVERSITY OF
TENNESSEE
KNOXVILLE

DEPARTMENT OF MATERIALS
SCIENCE & ENGINEERING



GUIDE FOR PROSPECTIVE STUDENTS

www.engr.utk.edu/mse

MATERIALS SCIENCE AND ENGINEERING

A Message from the Department Head

Thank you for your interest in the University of Tennessee's Department of Materials Science and Engineering (MSE). Our faculty, staff, and students are proud of the department's accomplishments and we want to share them with you.

Materials science is an interdisciplinary field, at the forefront of science and engineering. In the twenty-first century, we truly live in a "materials world," and a sustainable future largely depends on materials with increasingly sophisticated properties. Through the discovery of novel materials and by looking into ways to manipulate the properties to make promising materials stronger or "smarter," our MSE faculty and students work towards solving tomorrow's technological challenges and are impacting people's lives in countless ways.

If you are considering a career in engineering, I encourage you to take an in-depth look at the field of materials science and engineering at The University of Tennessee. Our undergraduate program features a low student to faculty ratio and is accredited by the ABET Engineering Accreditation Program. The quality of our professors assures excellent opportunities for an outstanding undergraduate education. We are located within 45 minutes of the Oak Ridge National Laboratory (ORNL) and have numerous collaborative activities with this world-renowned institution as well as with local industry, many of which involve our students.

The UT Department of Materials Science and Engineering has a great deal to offer—we hope you will give us serious consideration as you plan for your academic future.

Sincerely,

Veerle Keppens
MSE Department Head

What is Materials Science and Engineering?

Materials Science and Engineering (MSE) is a discipline that focuses on the development of new materials such as superalloys used in jet engines designed to withstand tremendous heat and stress, semiconductors used in computers and cell phones, and polymers and ceramics used in artificial hip replacements and tissue regeneration.



MSE students at UT receive a thorough education that includes design, mechanics, chemistry, physics, mathematics, and electronics. The MSE curriculum stresses "hands-on" learning through laboratory classes that introduce students to advanced processing and testing techniques. Students synthesize materials, prepare samples for microscopic evaluation, and evaluate the performance of materials.

MSE graduates are employed by prestigious companies including Dow Chemical, DuPont, Saint-Gobain, Eastman Chemical, Coors Ceramics and the Tennessee Valley Authority, among others. Initial salaries for BS graduates are currently in the \$57,000 range. MSE graduates frequently opt to continue their education through graduate school for Master of Science and PhD degrees or attend medical school.

If you would like specific information on job fairs, salaries, and career opportunities, visit the UT Career Services web site at career.utk.edu.

Department Resources

The MSE faculty bring their research knowledge into the classroom and relate the significance of their work to the advancement of materials. Many are international leaders in their fields of specialty and have received national honors and awards.

Independent study is also encouraged and may be performed in association with faculty and graduate students in advanced research areas.

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.

international.utk.edu

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.tn.gov/collegepays

The MSE department offers a generous undergraduate scholarship program. www.engr.utk.edu/mse

The college and the university also offer a number of scholarship opportunities.

onestop.utk.edu/yourmoney/financial-aid and www.engr.utk.edu/coe/undergraduate/scholarships.html

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

- The Office of Engineering Diversity Programs (EDP) www.engr.utk.edu/diversity
- The Tennessee Louis Stokes Alliance for Minority Participation (TLSAMP) tlsamp.utk.edu