

Departmental Information

Department of Materials
Science and Engineering
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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](http://admissions.utk.edu/undergraduate)

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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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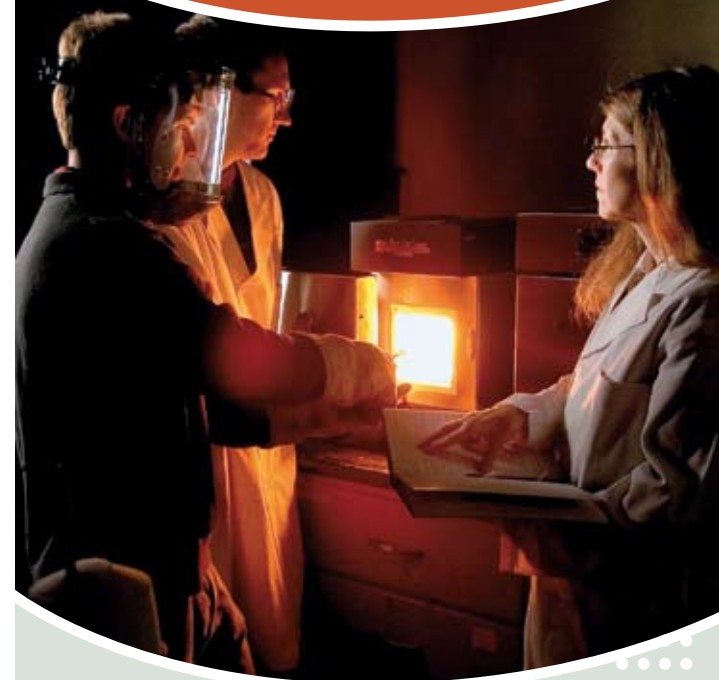
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THE UNIVERSITY of TENNESSEE 
College of Engineering

materials science and engineering

GUIDE FOR PROSPECTIVE STUDENTS



www.engr.utk.edu/mse

A Message from the Department Head

Thank you for your interest in the University of Tennessee's Department of Materials Science and Engineering (MSE). 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.

Developments in this area are at the forefront of modern technological advances, as new and improved materials are vital to the development of advanced products in many industries.

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.

Our university is located within 45 minutes of the Oak Ridge National Laboratory (ORNL) and is ideally situated for collaborative activities with this world-renowned institution as well as with local industry.

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,
Dr. George Pharr, MSE Department Head



What is Materials Science and Engineering?

Materials Science and Engineering 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 knee and hip replacements.

Materials engineering 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 prepare materials for microscopic examination and property measurement,



and evaluate the performance of materials.

MSE graduates are employed by prestigious companies including Dow Chemical, DuPont, Coors Ceramics and the

Tennessee Valley Authority, among others. Initial salaries for B.S. graduates are currently in the mid \$50,000 range. Materials science graduates frequently opt to continue their education through graduate school for Master of Science and Ph.D. degrees.

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 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. » 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 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. » 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

