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DEPARTMENT OF MATERIALS
SCIENCE & ENGINEERING

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Do you want to change the world? Sounds like a lot of work, but materials scientists and engineers do it every day.

Materials science and engineering is exactly what it sounds like—the study of the materials that compose objects we use in our daily lives. If you look around, you will see evidence of materials science research everywhere, from the computer you use for homework to the components of powerful and reliable jet engines.

Materials science and engineering is without a doubt the most versatile engineering field. It provides infinite possibilities for your future and offers unique career opportunities for creative and innovative people. Since there is a constant need for new and better materials, the job market for materials scientists and engineers is very promising.

The **Department of Materials Science and Engineering (MSE)** at the University of Tennessee (UT) College of Engineering is one of the best in the Southeast. Many of our professors are affiliated with Oak Ridge National Laboratory (ORNL) and are world leaders in materials research.

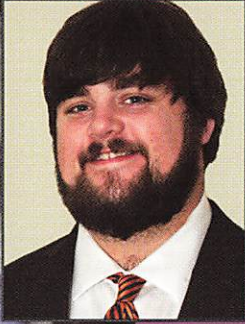
As a student in UT's MSE program, you will enjoy the benefits of a thorough, interdisciplinary education including design, mechanics, chemistry, physics, mathematics, and electronics. You will experience "hands-on" learning through laboratory classes that introduce advanced processing and testing techniques.

Inside we've compiled some information about several of our MSE graduates who are already changing the world. Take a look and see if you are ready for the challenge!

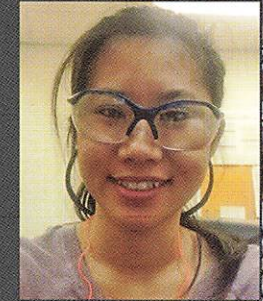


Changing the WORLD Every Day

Trevor Toll is a research engineer who serves as the director of the Cable Forensics Laboratory at the Analysis and Measurement Services (AMS) Corporation in Knoxville, Tennessee. He evaluates how thermal, oxidative, and irradiative environmental stressors affect the long term performance of cable insulation polymers installed in various nuclear power plant facilities.



Gimgun Loi (Gigi) is a technical engineer at the Dalton Extrusion Plant with Shaw Industries. She works on developing new fiber products at high quality to advance the carpet industry. Being able to relate structure, properties, and processing is a core concept in materials engineering and she uses it every day to develop front line products for consumers.



Michael Pagan is a materials process engineer of compound ceramic cores for investment castings of jet and industrial turbine blades for Alcoa Howmet. Materials science is key to creating perfect properties that are crucial for high performance and intricate dimensional parts.



Rebecca Lovely is an electron microscopy technician at Corning. Her job is to analyze optical fiber for quality, potential failure sources, and to perform break source analysis on optical fiber that has failed. It is her job to understand the whole manufacturing process and help Corning's engineers ensure that failures do not occur.



GRADUATES OF



MATERIALS SCIENCE &
ENGINEERING

Curtis Huddle works as a metallurgist and corrosion engineer at Eastman. He carries out failure analyses of broken parts, metallography, corrosion testing, and generally interfaces with the plant engineers/operators to help solve the materials-related problems they are having by using better materials.

