What can I do with my Major?

MATERIAL SCIENCE & ENGINEERING

SAMPLE JOB TITLES

*Visit O*Net and conduct an Occupation Quick Search of each job title to learn more about that career path.*

Materials Engineer
Materials Scientist
Engineering Teacher, Postsecondary
Industrial Engineering Technologist
Industrial Engineering Technician
Manufacturing Engineer
Metallurgist
Applications Engineer
Welding Engineer
Tool Design Engineer
Material and Process Engineers
Corrosion and Material Engineering Specialists

UCONN RESOURCES

Department of Chemical, Materials, and Biomolecular Engineering
Engineering Student Leadership Council
Tau Beta Pi
Society of Hispanic Professional Engineers
National Society of Black Engineers
Women in Math, Science and Engineering
Society of Women Engineers

OTHER RESOURCES

Materials Research Society
Society of Mining, Metallurgy and Exploration

OVERVIEW OF MAJOR

The Materials Science and Engineering program prepares students for a variety of jobs, teaching them production processing, characterization, selection, and design of materials. Materials are important to every aspect of engineering, making the study of materials an important part of creating many of the items used today. In this major you learn to design and develop materialsfrom metals and other resources used for the creation of new products, as well as learn the processes used to create new materials and alloys. In this major one learns to examine and assess materials at different levels in order to determine their usefulness, as well as how to create new materials.

NATURE OF WORK

A materials engineer uses analysis of materials in order to try and improve designs of products; for example, one might work to make a golf club lighter but stronger. Material engineers test and evaluate new materials; they design materials as well. They work to improve strength, corrosion resistance, and fatigue resistance. There are many career options for Materials Science and Engineering majors, depending on what they decide to specialize in. In addition to working with metals, materials engineers work with plastics, ceramics, semiconductors, and composites.

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