

What Can I Do With This **Ohio State** Major?

Bachelor of Science

Materials Science & Engineering

College of Engineering

The materials science and engineering (MSE) program at Ohio State is designed to train engineers to design, process, characterize, and manufacture all of the materials used today as well as those yet to be developed. Materials scientists and engineers are experts in the performance, specification, and manufacture of metals, ceramics, semiconductors, plastics, and composites. They must have broad knowledge of a variety of scientific and engineering fields to be competitive. The MSE program enjoys an international reputation and places its graduates in every facet of industry and academia. Students in MSE may focus their studies on ceramics, metallurgy, biomaterials, polymers, and electronic materials.

Career Areas/Job Titles:

Management and Industry

General Manager
Site Manager
Project Coordinator
Quality Control Auditor
Consultant

Science and Technology

Ceramic Engineer
Composite Engineer
Metallurgical Engineer
Plastics Engineers
Semiconductor Process
Engineer

Materials Laboratory Scientist
Product Developer

Education

Professor
Researcher

**Some careers may require licensure, certification, or further education. Talk to an advisor about specific requirements.*

Transferable Skills:

Engineering Fundamentals
Mathematic Skills
Physics Foundation
Provide/Respond to Feedback
Speaking Effectively
Use Technology Effectively
Written Communication
Social Perceptiveness
Teaching/Instructing Others

Teamwork
Conceptualization
Developing Evaluation
Strategies
Experimental Design
Forecasting/Predicting
Research Skills
Attention to Detail
Judgment & Decision Making

Administrative Skills
Organization Skills
Prioritizing Tasks
Strategic Planning/Visioning
Creating Innovative Solutions
Quantitative Reasoning
Data Analysis
Analytical/Critical Thinking
Problem Solving

**This is not an extensive list of transferable skills. See larger list of skills you might develop here:
<http://ccss.osu.edu>*

Professional Links:

The Materials Research Society: www.mrs.org

The Minerals, Metals & Materials Society: www.tms.org

ASM International: www.asminternational.org/portal/site/www/

OSU Engineering Project Teams: <http://engineering.osu.edu/studentprojects/index.php>

American Chemical Society: <http://portal.acs.org/portal/acs/corg/content>