

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

Bachelor of Science

Welding Engineering

College of Engineering

Welding engineering employs science and engineering in joining components made of metals, ceramics, plastics, and other materials. Welding engineering includes design of the joints to be welded, development of the detailed joining procedures to be used, selection of the materials incorporated in the joint, joint inspection, and quality control for the final product. Welding engineering can also involve research in these areas, such as developing new welding processes or procedures for new materials. Welding engineers work with design engineers to develop efficient welding designs and fabrication procedures.¹

Career Areas/Job Titles:

Management and Industry

Consultant
Entrepreneur
Operations Manager
Sales Representative
Welding Engineer
Weld Inspector

Science and Technology

Research and Design Specialist
Non-Profit/Advocacy
Peace Corps Volunteer
Naturalist
Government/Politics
Lawyer

Lobbyist

Education

K-12 Teacher
Professor

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

Transferable Skills:

Building and Construction
Chemistry Focus
Engineering Fundamentals
Mathematic Skills
Physics Foundation
Persuasion
Provide/Respond to Feedback
Use Technology Effectively

Conceptualization
Defining Needs
Developing Evaluation
Strategies
Forecasting/Predicting
Identifying Problems
Attention to Detail
Judgment & Decision Making

Implementing Decisions
Organization Skills
Strategic Planning/Visioning
Creating Innovative Solutions
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:

American Welding Society: <http://www.aws.org/w/a/>
Materials Research Society: <http://www.mrs.org/home/>
The Minerals, Metals and Materials Society: <http://www.tms.org/TMSHome.aspx>
Institute of Materials, Minerals and Mining: <http://www.iom3.org/>