

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

Bachelor of Science

Engineering Technology

College of Engineering

This major is available only on the Lima, Mansfield, and Marion campuses.

The Engineering Technology major is an application-based engineering technology degree that offers students manufacturing engineering technology skills combining business and leadership principles with engineering processes and technical knowledge. Bachelor of Science in Engineering Technology (BSET) major graduates apply appropriate engineering technologies and 21st-century tools; analyze problems using a systems approach; bring the needs of people into the equation using strong interpersonal and communication skills; and employ effective business analysis of decisions in local and global contexts.

Do you want to become a business-oriented manufacturing leader right here in Ohio? Do you want to have career/professional security? Would you someday like to manage a manufacturing plant and run the factories of tomorrow?

If your answer is Yes, The Ohio State University's Engineering Technology program (Bachelor of Science in Engineering Technology - BSET) is the right major for you! Because:

- Ohio is the 3rd largest state in the US for manufacturing. This fact provides a lot of security in the BSET major choice.
- Ohio manufacturers are important partners for OSU's BSET program in building the curriculum and support students through mentorships, plant tours and real-world assignments.
- OSU's BSET major has a curriculum based on industry needs that will allow graduates of the program to help the State of Ohio build the manufacturing workforce needed to compete and thrive.
- BSET major graduates are experts in many facets of manufacturing including keeping automated systems operating, anticipating potential production problems, and reconfiguring machines to accommodate new processes.
- BSET major graduates are well educated in a systemized and integrated approach to occupy leadership roles in manufacturing.

Career Areas/Job Titles:

- **Management and Industry:**

- Manufacturing Engineer
- Engineering Group Leader
- Operations Supervisor
- Senior Process Engineer
- Manufacturing Plant Manager

- **Science and Technology:**

- Product Developer
- Production Engineer
- Facilities Manager
- Product Testing and Construction

- **Non-Profit/Advocacy**

- Service-Learning Coordinator
- Technical services

Transferable Skills:

- *Engineering Fundamentals*
- *Application-based engineering technology skills*
- *Engineering and Business Leadership*
- *Knowledge of production, systems, business, and technology*
- *Use Technology effectively while functioning at the intersection of operational technologies (OT) and information technology (IT)*
- *Operate automated systems successfully*
- *Train/Instruct the manufacturing workforce*
- *Machining and electro-mechanical machinery -troubleshoot complex computerized machines to prepare food, beverage, chemical and biotechnology process-manufactured goods*
- *Digital skills for managing the cyber-physical systems characteristic of some shop-floor digitalization of manufacturing, including the “Internet of things,” or IoT*
- *Teamwork*
- *Develop Evaluation Strategies*
- *Attention to Detail*
- *Judgment & Decision Making - Use data to make decisions*
- *Deploy computerized manufacturing systems – Including robots*
- *Administrative and Organization Skills – to implement supervisory and managerial activities associated with manufacturing*
- *Strategic Planning/Visioning - understanding of business practices as well as production operations and using that understanding to anticipate potential issues and solve them before they become problems*
- *Creating Innovative Solutions*
- *Problem Solving*
- *Implementing technological processes for manufacturing firms*
- *Product design, construction, and improvement*
- *Preparation statewide and nationally for the manufacturing skills of the near future*

***This is not a complete list of transferable skills. See larger list of skills you might develop here: <https://ccss.osu.edu>**

Professional Links:

- [Ohio Manufacturing Institute](#)
- [Manufacturing](#) and [technology](#)-related occupations identified as “high-demand” by JobsOhio
- [Accreditation Board for Engineering and Technology \(ABET\)](#)

Click for [more information about the BSET Major](#)