

# MANUFACTURING ENGINEERING TECHNOLOGY



*"Modern manufacturing activities have become exceedingly complex because of rapidly increasing technology. This has increased the demand for highly skilled manufacturing technologists, engineers, and managers."*

*– Society of Manufacturing Engineers*

Manufacturers in the United States account for 12.5% of the total economic output employing almost 9% of the nation's workforce. (National Association of Manufacturers, 2015)

## DEGREE

BACHELOR OF SCIENCE (B.S.)

### Manufacturing Engineering Technology (MFET)

Students in the major are introduced to the fundamentals of engineering, materials, and production processes used within industry. The program provides in-depth technical content in advanced manufacturing with an emphasis on automated manufacturing and computer integrated manufacturing. Students to design, develop, and construct projects in laboratory-based courses. Technologies commonly used in industry are emphasized throughout the curriculum. Seniors are encouraged to participate in a cooperative education or internship experience to further enhance their knowledge in technical areas within an industrial environment.

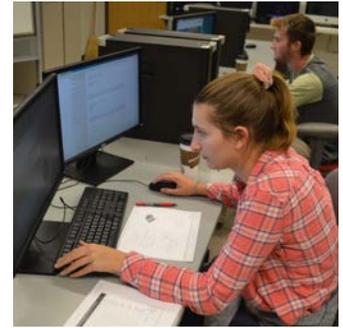
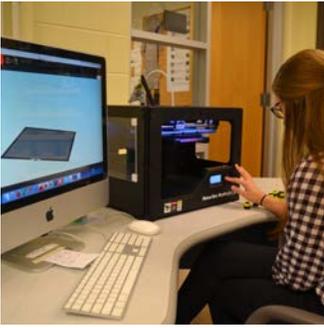


## Top 3 Reasons to Choose Manufacturing Engineering Technology

AT MILLERSVILLE UNIVERSITY

1. Despite misconceptions that "manufacturing is dead" or that "all manufacturing has moved overseas" the National Network for Manufacturing Innovation (commonly known as Manufacturing USA) estimates that the manufacturing workforce employs approximately 12 million people nationwide.
2. Manufacturers in Pennsylvania account for 12% of the total output in the state and employ almost 10% of the workforce. National Association of Manufacturers.
3. Regional demand for the skills sets of graduates is exceptional. PA 2012-2022 Long-term Projections for Regional Employment.

The Manufacturing Engineering Technology major integrates meaningful learning experiences in applied engineering, science, and advanced manufacturing to provide a practical education that prepares career-ready graduates for success in a range of high-demand STEM fields opportunities that exist locally, regionally, nationally, and internationally. The program is balanced with general education components so that graduates develop critical thinking, writing, and communication skills to support advancement throughout their careers.



## CLUBS & ACTIVITIES

**SME** – Millersville University. SME (**formerly the Society of Manufacturing Engineers**) is an organization for individuals, students, educators and companies involved in all facets of manufacturing. Founded in 1932, it is dedicated to advancing and educating the manufacturing industry. SME focuses its efforts on several areas of manufacturing: aerospace and defense, energy, medical and motorized vehicles.

### **Association of Technology, Management & Applied Engineering (ATMAE) Student Chapter (aka MU Robotics Team)**

The MU Robotics Team has earned more than 30 awards since 2001 in national or international robotics competitions. The team boasts winning the 2010 and 2013 ATMAE National Robotics Competitions.

**Epsilon Pi Tau (EPT) – Beta Phi Chapter.** Epsilon Pi Tau is an international honor society for professions in technology. At Millersville, this includes Engineering Technology, Technology & Engineering Education, Applied Engineering & Technology Management, and Occupational Safety & Environmental Health majors.



## ACCREDITATION

The Manufacturing Engineering Technology degree is a new program at Millersville University. The intent of the program is to pursue accreditation by either the Association of Technology Management and Applied Engineering (ATMAE) or the Accreditation Board for Engineering Technology (ABET).

## FACILITIES

There are multiple laboratory facilities dedicated to supporting the Manufacturing Engineering Technology degree.

- Metallic Materials Processing
- Non-metallic Materials Processing
- Polymers & Ceramics
- Advanced CADD & Rapid Prototyping
- CADD
- Electronics
- Robotics & Automation
- Fluid Power

## ABOUT OUR GRADUATES

The department has a long history of preparing professionals for employment in manufacturing industries. Our graduates leave MU with the technical and professional skills to be employed in a wide variety of positions. They are typically employed as:

- Production Manager
- Manufacturing Engineer
- Production Engineer
- Technical Salesperson
- Manufacturing Process Engineer
- Quality Assurance Engineer



Dr. Alex Johnson is the program coordinator for the Manufacturing Engineering Technology degree program.

For more information or if you have questions about this program e-mail [Alex.Johnson@millersville.edu](mailto:Alex.Johnson@millersville.edu)

### **FOR INFORMATION CONTACT:**

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