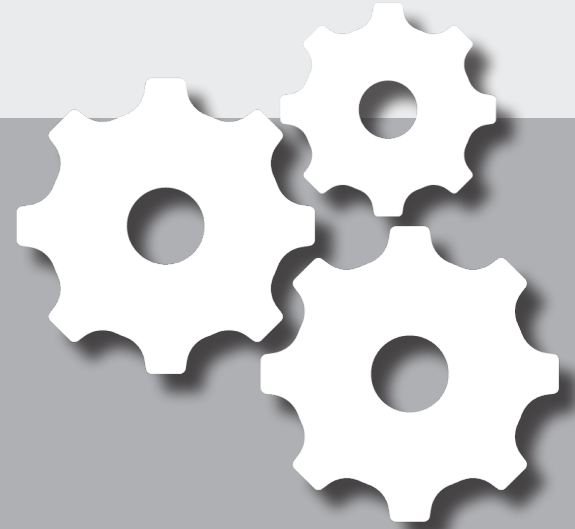


# ADVANCED MANUFACTURING

Mastering precision in a world of innovation



Shape the future as you wield lathes, mills, and saws to craft metal into incredible parts. Get hands-on with computers and high-tech software to design and build your projects. Have an expert eye for safety and quality. Set your sights on in-demand careers.



## What You Can LEARN

### Units of Study

- Orientation
- OSHA
- Safety
- Power Saws
- Manual Machining Mill/Lathe
- Computer Numerically Controlled (CNC)
- Computer Aided Design (CAD)
- Computer Aided Manufacturing (CAM)
- Geometric Dimensioning and Tolerancing (GD&T)



## What You Can EARN

### Available High School Academic Credits

*At district request, students may earn:*

- English

### Licensing/Industry-Based Certifications

*Students have opportunities to earn:*

- OSHA 10 Construction

### Work-Based Learning

*Organizations that support this program:*

- SPX Flow
- Micro Inc.
- Brinkman
- Kodak
- Gleason
- JAM Industries
- Jrlon



## Where You Can GO

### Career Opportunities

Minimal Requirement Beyond CTE

- CNC Operator
- Mill Operator
- Lathe Operator

Additional Education and/or Experience

- Programmer
- Engineer
- Manufacturing Manager

### Postsecondary Pathways

Dual Enrollment

- Monroe Community College
  - Machine Theory I (TAM101)
  - Mathematics for Machinists (TAM121)
  - Machine Shop Print Reading I (TAM131)
  - Machine Shop Laboratory (TAM141)

Articulation Agreements

- SUNY Canton
- Alfred State

Now You Can **KNOW**

According to a recent survey, 92% of manufacturers report a moderate to severe shortage of skilled workers, making it a promising field for those interested in pursuing a career.



**Monroe 2-Orleans BOCES Career and Technical Education**

WEMOCO Career and Technical Education Center

3589 Big Ridge Road, Spencerport, NY 14559

(585) 352-2471 • [www.monroe2boces.org/cte](http://www.monroe2boces.org/cte) • @BOCES2CTE

