

PRECISION MACHINING

2021-2022



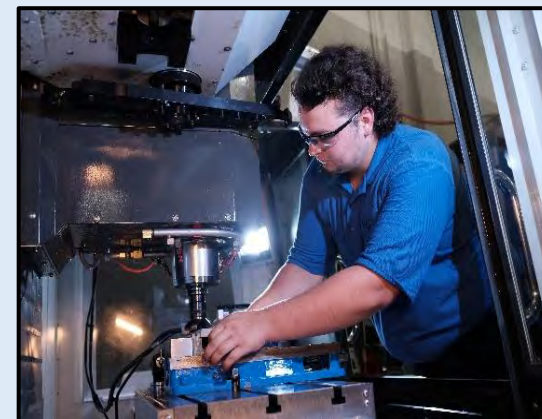
Precision Machining is designed for students interested in careers in areas such as: machining, tool and die, CNC programming/operation, millwright, robotics, and engineering. This program offers a high earning potential and a wide array of career choices. Students learn to apply the concepts of the various manufacturing technologies on both manual and state-of-the-art machines. Precision Machining is part of the Advanced Manufacturing Academy. Senior students have the opportunity to engage in advanced-elective course work in any of the manufacturing areas: Computer-Aided Design, Precision Machining, Robotics & Automation, and Welding. This opportunity provides students with a more diverse skill-set to enter a career in manufacturing.

Program Highlights:

- Work with Computer-Aided Manufacturing (CAM) software and machines to automate manufacturing processes
- Operate industrial lathes and mills that are used every day in the manufacturing industry
- Design, create and build high-tech parts using precision measuring instruments

The Program Focuses on the Following State Approved Courses:

- Machine Tools
- Machining with Industrial Lathes



COST-FREE COLLEGE CREDIT OPPORTUNITIES

College Credit Plus through Owens Community College

- CAD 125: Production Drawing (3 Credit Hours)
- CAM 122: CNC Mill Applications (2 Credit Hours)
- CAM 160: Machining I (2 Credit Hours)
- CAM 161: Machining II (2 Credit Hours)

Career Technical Assurance Guides (CTAGs)

- CTS001: OSHA 10-Hour Safety (1 Credit Hour)

INDUSTRY-RECOGNIZED CREDENTIALS (POINT VALUES)

- Ohio State Apprenticeship Council Recognized Pre-Apprenticeship Program Certificate of Completion (12 Points)
- NIMS Machining Level 1 Certification (12 Points)
- OSHA 10-Hour Training (1 Point)

OHIO MEANS JOBS OCCUPATIONS LISTED ACCORDING TO TYPICAL SALARY

OCCUPATION TITLE	TYPICAL SALARY-BOTTOM 10%	TYPICAL SALARY-MEDIAN	TYPICAL SALARY-TOP 10%	TYPICAL EDUCATION	ANNUAL JOB OPENINGS
Cutting, Punching, & Press Machine Setters, Operators, & Tenders, Metal & Plastic*	\$26,210	\$36,520	\$51,730	HS Diploma or Equivalent	1,660
Grinding, Lapping, Polishing, & Buffing Machine Tool Setters, Operators, & Tenders, Metal & Plastic*	\$26,390	\$36,410	\$51,740	HS Diploma or Equivalent	690
Multiple Machine Tool Setters, Operators, & Tenders, Metal & Plastic*	\$26,390	\$37,380	\$63,640	HS Diploma or Equivalent	1,870
Machinists*	\$28,650	\$43,320	\$65,250	HS Diploma or Equivalent	2,880
Computer Numerically Controlled Tool Operators*	\$28,870	\$41,130	\$60,000	HS Diploma or Equivalent	1,330
Tool and Die Makers*	\$34,510	\$51,220	\$74,240	Postsecondary Certificate	650
Computer Numerically Controlled Machine Tool Programmers, Metal & Plastic*	\$38,750	\$52,710	\$79,390	Postsecondary Certificate	250
Manufacturing Engineers	\$55,780	\$82,590	\$125,140	Bachelor's Degree	1,300

JOB OUTLOOK COMPILED BY OHIO MEANS JOBS AS OF SEPTEMBER 2021; VISIT OHIOMEANSJOBS.COM FOR MORE INFORMATION.

*Denotes an In-Demand Occupation in the State of Ohio

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TECHNICAL CAREERS

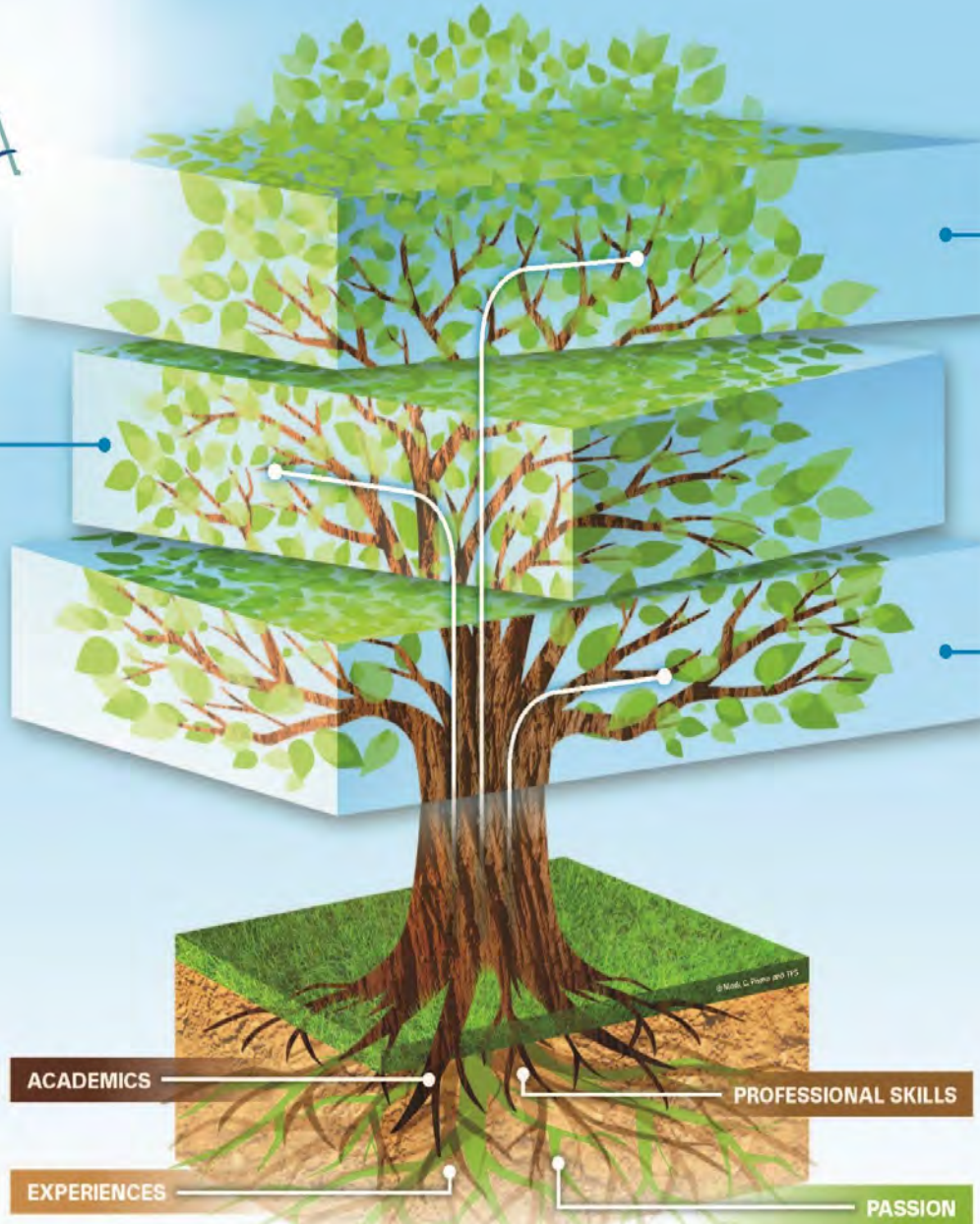
- Machinist
- Maintenance Machinist
- Millwright
- Quality Control Inspector
- Mold Maker
- Pattern Maker
- Tool & Die Maker
- Instrument Maker
- CNC Programmer
- CNC Machinist
- Machine Builder
- Robot Programmer

PROFESSIONAL CAREERS

- Manufacturing Engineer
- Quality Manager
- Aerospace Manufacturing Manager
- Medical Device Manufacturing Engineer
- Computer Automated Manufacturing Engineer
- Manufacturing Sales Engineer
- Aeronautical Engineer
- Aerospace Engineer
- Metallurgist
- Instructor
- Quality Engineer
- Plant Engineer

ENTRY-LEVEL CAREERS

- Machine Operator
- CNC Operator
- Robot Operator
- Material Handler
- Assembler
- Packager
- Press Operator
- Quality Assistant
- Apprentice
- Stock Cutter/Handler
- Inspector
- Manual Machine Tool Operator



PRECISION MACHINING



Florida State College at Jacksonville

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