

Machining and Forming Technologies

Industry Sector: Manufacturing & Product Development

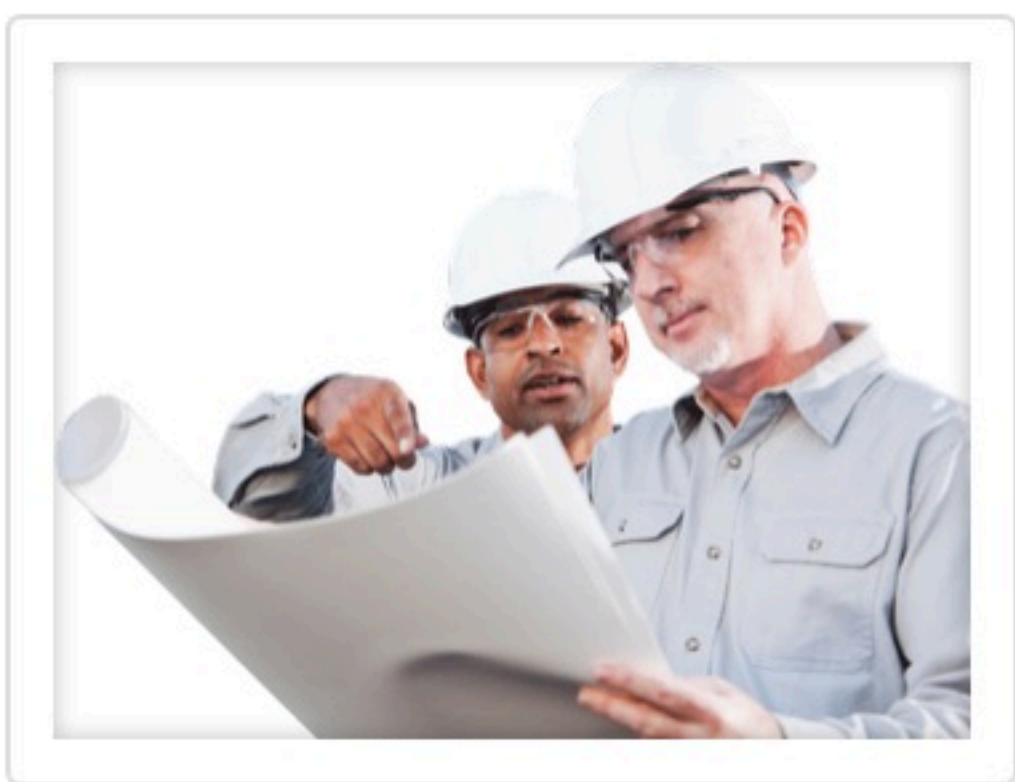
What is it?

Students gain an understanding of manufacturing processes and systems common to careers in machine tool and materials forming industries. Topics include basic material identification; proper use of hand and machine tools; reading precision measuring tools and the interpretation of machined and formed-part prints; the cutting, shaping, fastening, and finishing of machined parts; fixtures: forging, molding (casting), cold forming, and shearing processes.

Projected Employment: 13,600



Occupations



Manufacturing Engineers

Average Salary: \$99,040

Improve manufacturing processes or products or to reduce costs, using knowledge of fabrication processes, tooling and production equipment, assembly methods, quality control standards, or product design, materials and parts.



Welder

Average Salary: \$42,490

Lay out, position, align, and secure parts and assemblies prior to assembly.



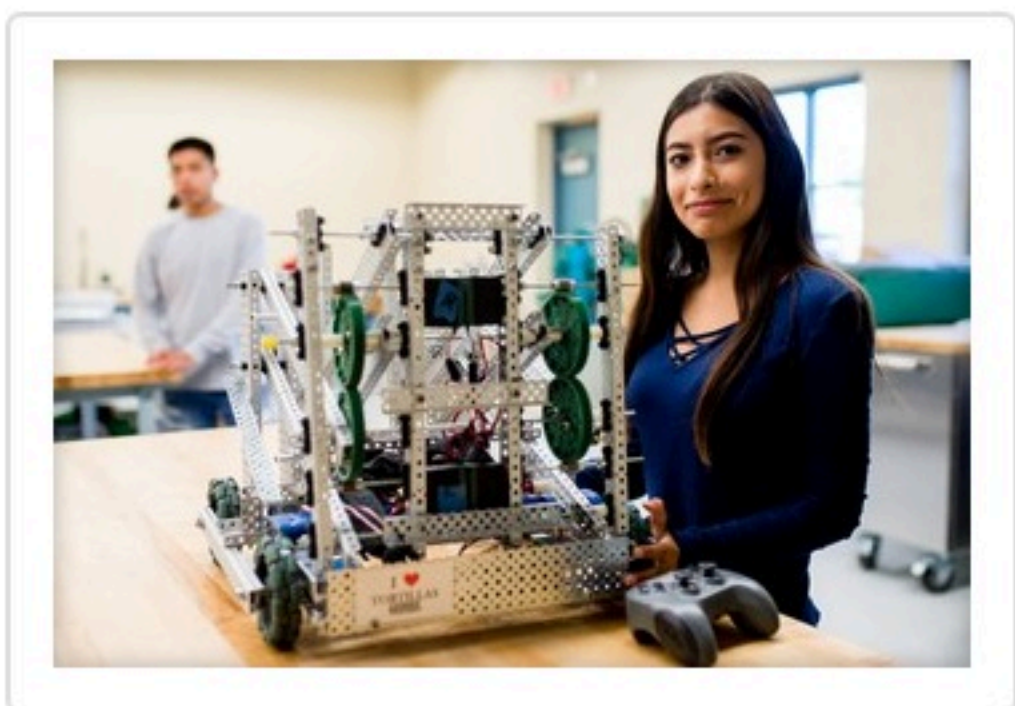
Machine Tool Setter

Average Salary: \$36,330

Set up and operate machines, such as lathes, cutters, shears, borers, millers, grinders, presses, drills, or auxiliary machines, to make metallic and plastic workpieces.

Courses in This Pathway

- Introduction to Manufacturing
- Intermediate Manufacturing
- Advanced Manufacturing



Local Industry Supports Manufacturing Pathway

Students have access to internships in the El Monte community.



Available at South El Monte High School



Students Demonstrate on Haas Machines

Industry-standard equipment give students job skills.