

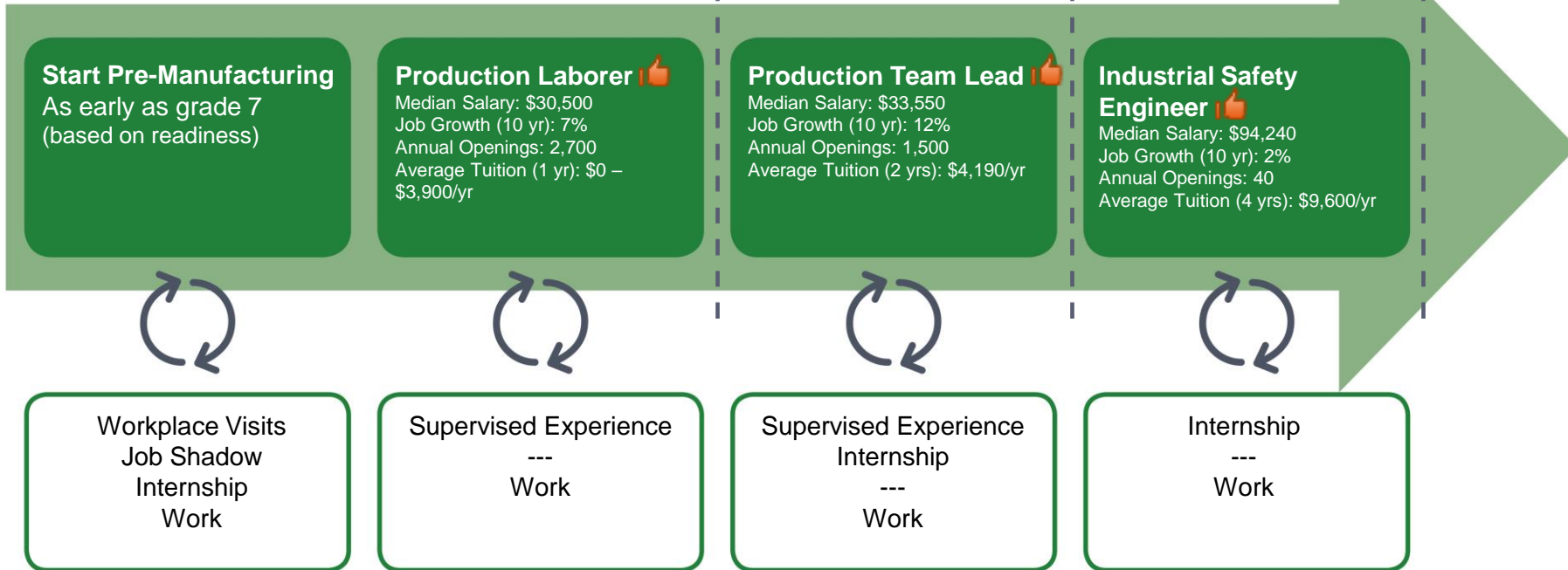


# Manufacturing Technologies Career Pathway

Certificate

Associate Degree,  
Systems Technology

Bachelor's Degree,  
Environmental Engineering



Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

**Preparing students for multiple options after high school:**  
gainful employment and/or postsecondary study.

Ohio In-demand Occupations

Data reflects 2020 Occupational Employment and wages and Onet. For specific tuition costs, visit [ohiohighered.org](http://ohiohighered.org).



# Manufacturing Technologies Career Pathway

Secondary Pathway: **Manufacturing Operations**

Postsecondary Program: **Systems Technology**

## An Example of Courses with Secondary and Postsecondary Credits

Secondary	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Pre-Engineering Technologies		
	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Manufacturing Operations	World Languages	
	11	English III	Algebra II	Chemistry	U.S. History	CNC Technology	Machine Tools	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Computer Integrated Manufacturing	Robotics		
Postsecondary	Year 1 1st Semester	English Composition	College Algebra	Computer Applications	Environmental Health & Safety	Operations Management I	Print Reading & Sketching		
	Year 1 2nd Semester	Technical Writing	Statistics	Quality Management Systems	Manufacturing Processes	Operations Management II	Human Relations in the Workplace		
	Year 2 1st Semester	Communication	Labor Relations	Effective Management	CNC Programming	Lean Systems			
	Year 2 2nd Semester	Psychology	Manufacturing Automation	Machine Reliability	Problem Solving & Decisions				

### High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

### Required Courses

### Recommended Electives

Visit [education.ohio.gov/CareerConnections](http://education.ohio.gov/CareerConnections) for reference information.

Course titles and sequences will vary between schools.

6/2015