

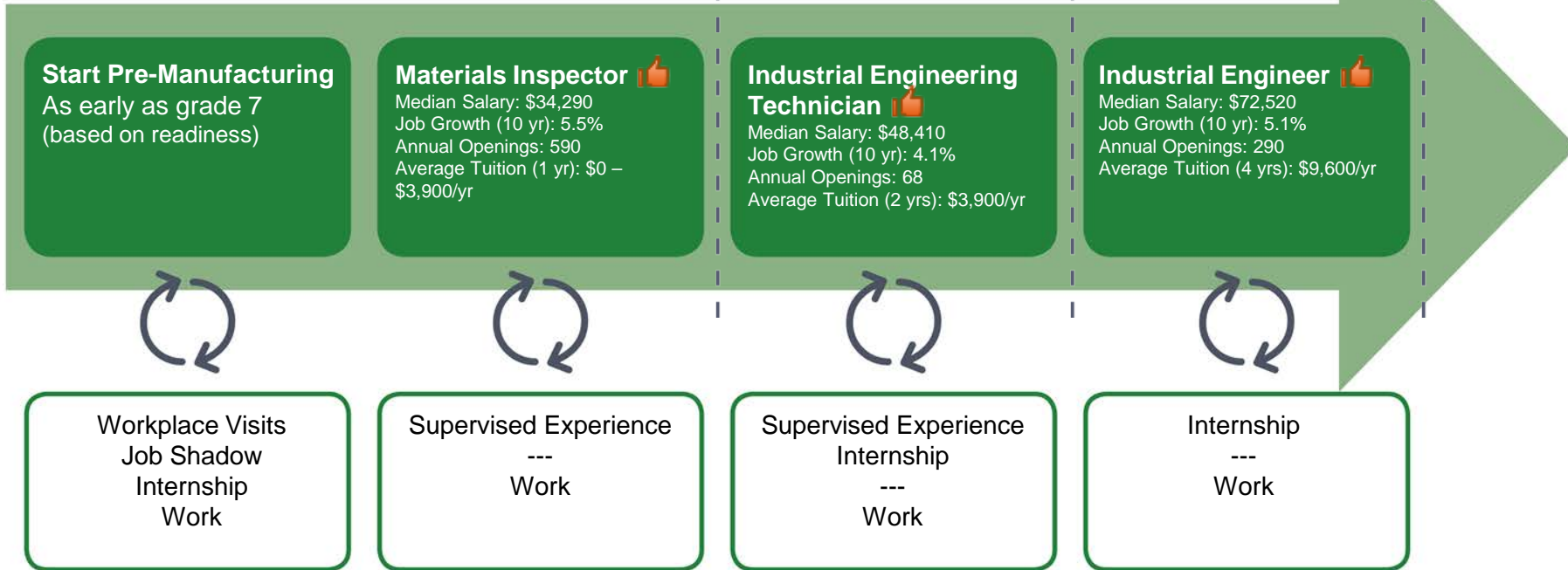


# Manufacturing Technologies Career Pathway

Certificate

Associate Degree,  
Industrial Technology

Bachelor's Degree,  
Industrial 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 2014 Ohio labor statistics and public institutions of higher education for 2013-2014. For specific tuition costs, visit [ohiohighered.org](http://ohiohighered.org).



# Manufacturing Technologies Career Pathway

Secondary Pathway: **Manufacturing Operations**

Postsecondary Program: **Industrial 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	Engineering Principles	Machine Tools	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Computer Integrated Manufacturing	Mechanisms & Drives		
Postsecondary	Year 1 1st Semester	Computer-Aided Design	Industrial Safety	Electrical Systems	Mechanical Maintenance	Introduction to Engineering Technology	Technical Math		
	Year 1 2nd Semester	Employability Skills	Hydraulics & Pneumatics	Programmable Logic Control	Dimensional Metrology	Software Applications	Motor and Motor Controls		
	Year 2 1st Semester	English	Hydraulic Troubleshooting	Electrical Troubleshooting	Electrical Distribution	Automated Systems			
	Year 2 2nd Semester	Business Communication	Small Group Communication	Micro-economics	Industrial Machine Maintenance	Industrial Technology Projects	Humanities Elective		

### 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.

11/2014