

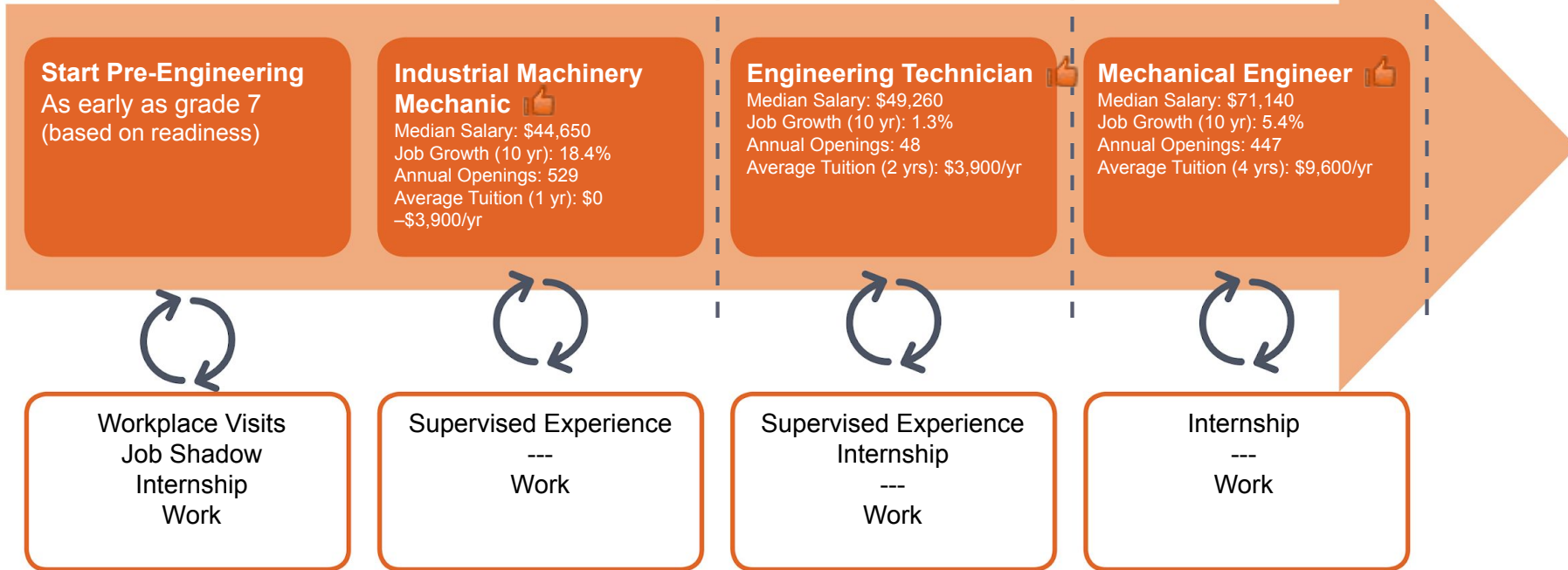


Engineering and Science Technologies Career Pathway

Certificate

Associate Degree,
Engineering Technology

Bachelor's Degree,
Mechanical 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.



Engineering and Science Technologies Career Pathway



Secondary Pathway: **Engineering and Design**

Postsecondary Program: **Mechanical Engineering Technology**

An Example of Courses with Secondary and Postsecondary Credits

S e c o n d a r y	9	English 9	Geometry Honors	Biology Honors	U.S. History	Health Found. of PE	Intro to Engineering Design	German I	
	10	English 10	Alg II-Trig Honors	Chemistry Honors	Non—Western Studies World History	PE Financial Lit . Economics	Principles of Engineering	German II	
	11	AP English Language	Pre-calculus Honors	AP Physics I	U.S. Government	AP Computer	Digital Electronics	German III Honors	
	12	AP English Literature	AP Calculus	AP Physics (Mechanics)	Robotics	Fine Art	Engineering Design	AP German	
P o s t s e c o n d a r y	Year 1 1st Semester	Computer Applications	Technical Math	Intro to Engineering Technology	Manufacturing Materials & Processes	Engineering Graphics			
	Year 1 2nd Semester	Personal Health	Statics	College Physics II	CAD I	Physics Lab			
	Year 2 1st Semester	Interpersonal Communication	Strength of Materials	Basic Mechanisms and Drives	CAD II	Ethics	Motors and Control Logic		
	Year 2 2nd Semester	Technical Writing	Machine Design/CAM	Engineering Statistics	CNC	Robotics	Micro Economics		

High School Career-Technical or Career Related Education Program Courses and the Corresponding Postsecondary Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses 11/2014

Visit education.ohio.gov Career Connections for reference information.
Course titles and sequences will vary between schools.

Required Courses

Recommended Electives