

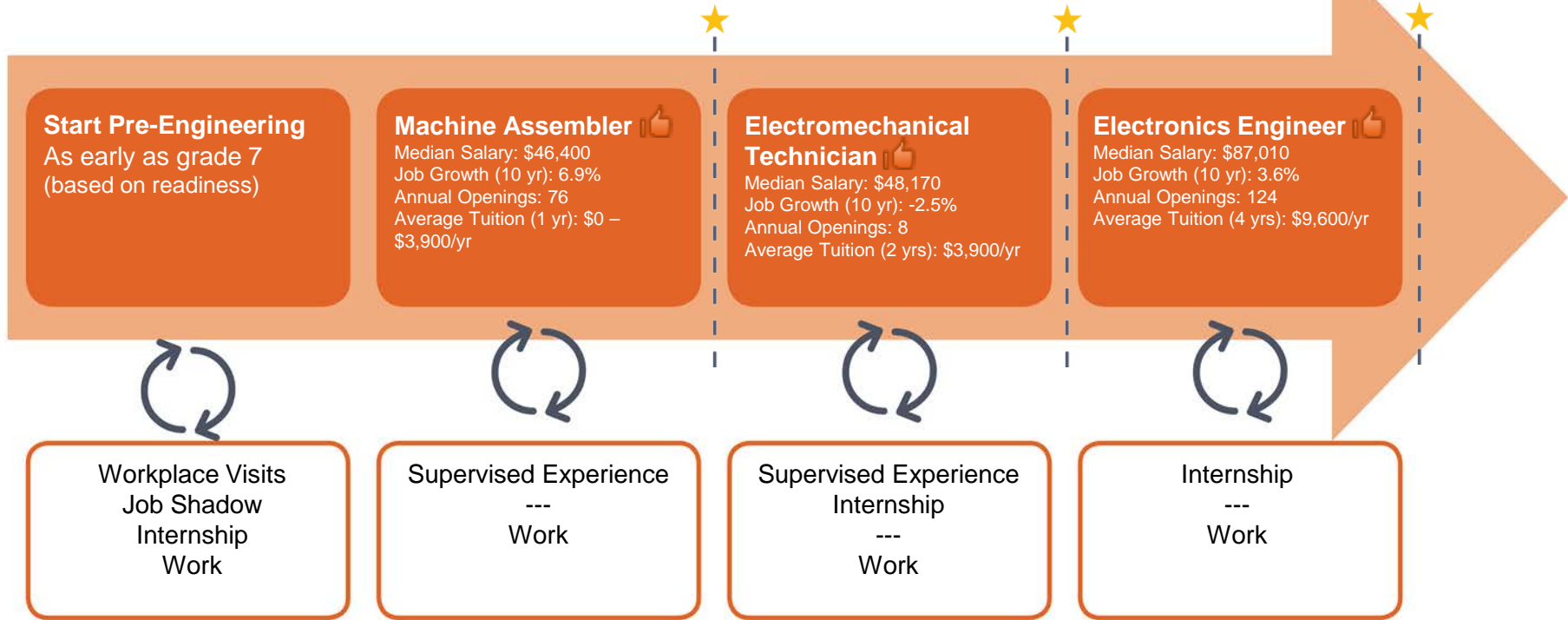


Engineering and Science Technologies Career Pathway

Certificate

Associate Degree,
Electromechanical Technology

Bachelor's Degree,
Electronics 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: **Electromechanical 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	Algebra II	Biology	World History	Health (.5) PE (.5)	Engineering Principles	Engineering Design	World Languages
	11	English III	Geometry	Chemistry	U.S. History	Analog Based Electronic Devices	DC & AC Electronic Circuits	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Robotics	Digital Electronics		
Postsecondary	Year 1 1st Semester	Computer Applications	College Algebra	Intro to Engineering Technology	Engineering Design & Graphics	Electric Circuits	Basic Metrology		
	Year 1 2nd Semester	English Composition	Statistics	Physics	CAD I	Electronic Circuits	Fluid Power Transmission		
	Year 2 1st Semester	Interpersonal Communication	Energy, Power & Controls	Metallic Materials & Processes	Digital Electronic Systems	Ethics	Motors and Control Logic		
	Year 2 2nd Semester	Technical Writing	Electric Machinery & Controls	Electrical Measurement & Instruments	Lean Processing & Systems	Robotics	Micro Economics		

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 for reference information.

Course titles and sequences will vary between schools.

6/2015