

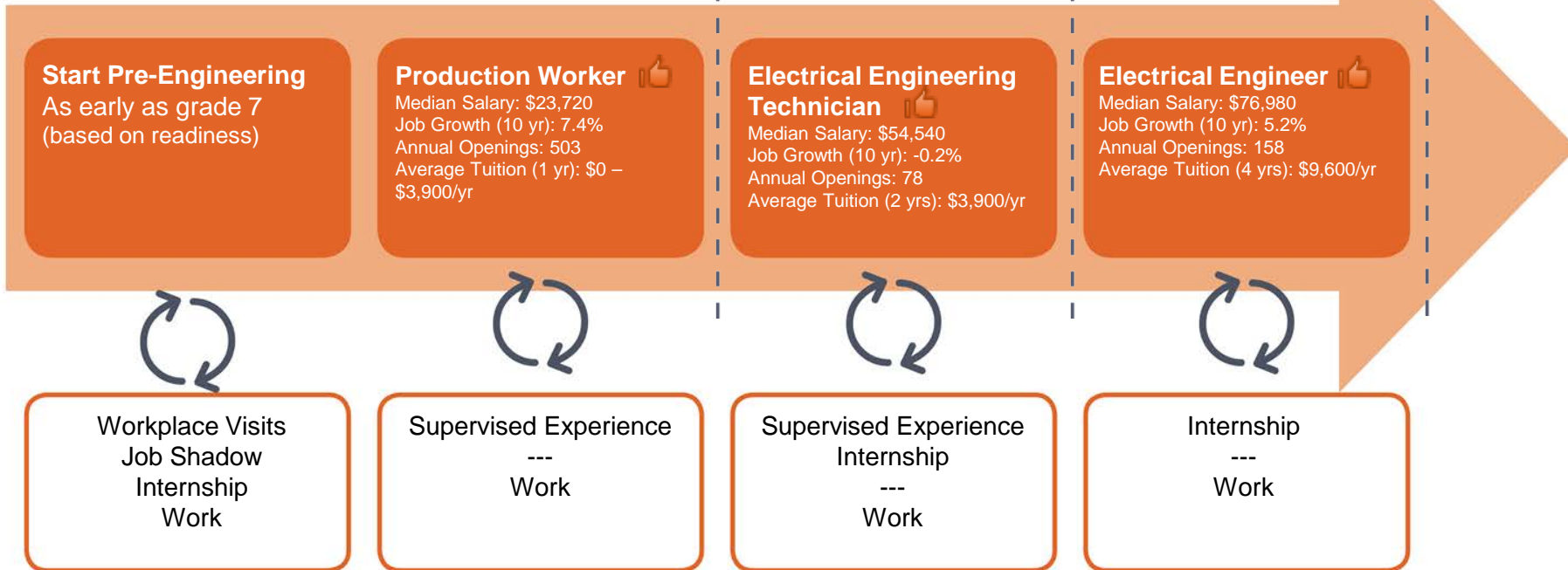


Engineering and Science Technologies Career Pathway

Certificate

Associate Degree,
Electrical Engineering
Technology

Bachelor's Degree,
Electrical 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: **Electrical Engineering 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	DC & AC Electronic Circuits	World Languages
	11	English III	Geometry	Chemistry	U.S. History	Analog-Based Electronic Circuits	Digital Electronics	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Robotics	Engineering Capstone		
Postsecondary	Year 1 1st Semester	English Composition I	Computer Applications	Digital Systems	DC Electronic Systems	PC Tech Essentials			
	Year 1 2nd Semester	College Algebra	AC Electronic Systems	Switching & Amplifier Systems	AC Electronic Systems	Data Communications			
	Year 2 1st Semester	Physics I	Micro Economics	Data Acquisition Systems	Embedded Micro-controller Systems	Advanced Digital Systems			
	Year 2 2nd Semester	Physics II	Technical Writing	Small Group Communication	Capstone	Ethics			

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.

5/2015