

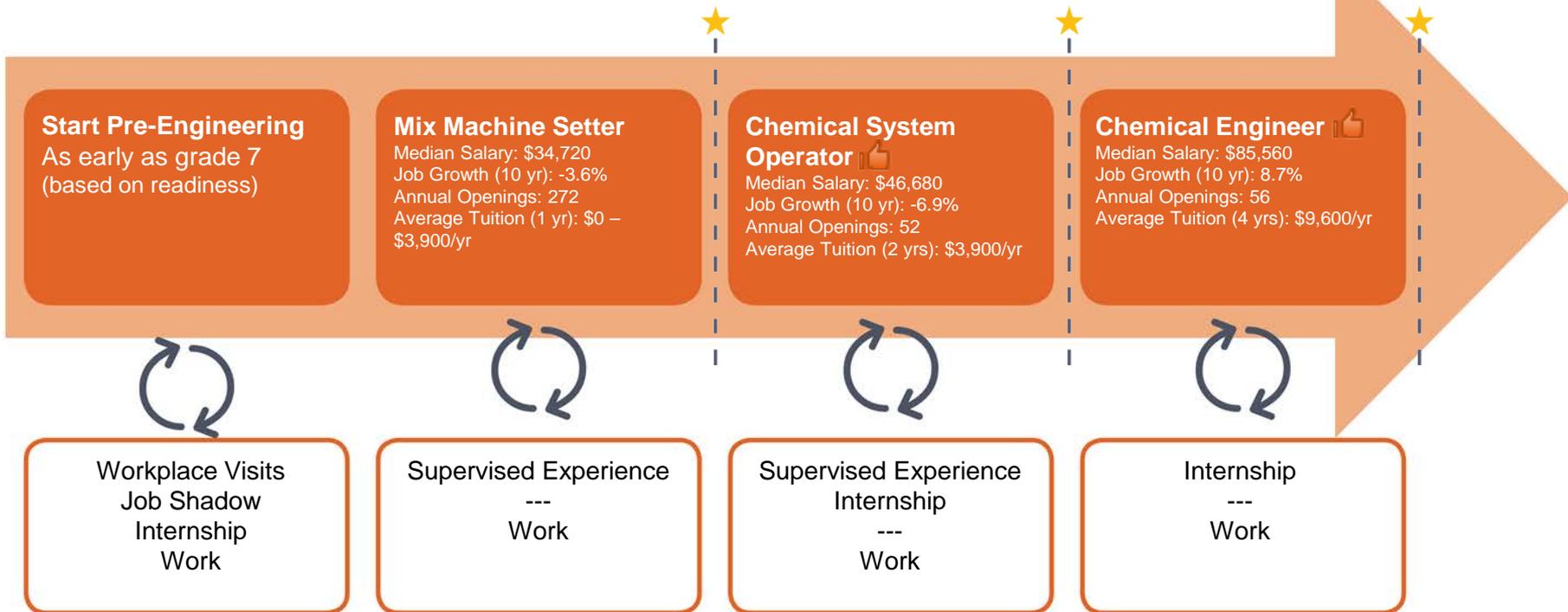


Engineering and Science Technologies Career Pathway

Certificate

Associate Degree,
Chemical Technology

Bachelor's Degree,
Chemical 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: **Chemical 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	Computer Integrated Manufacturing	Engineering Principles	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Manufacturing Capstone			
Postsecondary	Year 1 1st Semester	English Composition I	Calculus I	General Chemistry I	Chemistry Lab	Intro to Science Professions			
	Year 1 2nd Semester	Humanities Elective	Calculus II	General Chemistry II	Chemistry Lab II				
	Year 2 1st Semester	History Elective	Physics I	Organic Chemistry I	Organic Chem Lab I				
	Year 2 2nd Semester	English Composition II	Physics II	Organic Chemistry II	Organic Chem Lab II	Social Science 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 for reference information.

Course titles and sequences will vary between schools.

5/2015