

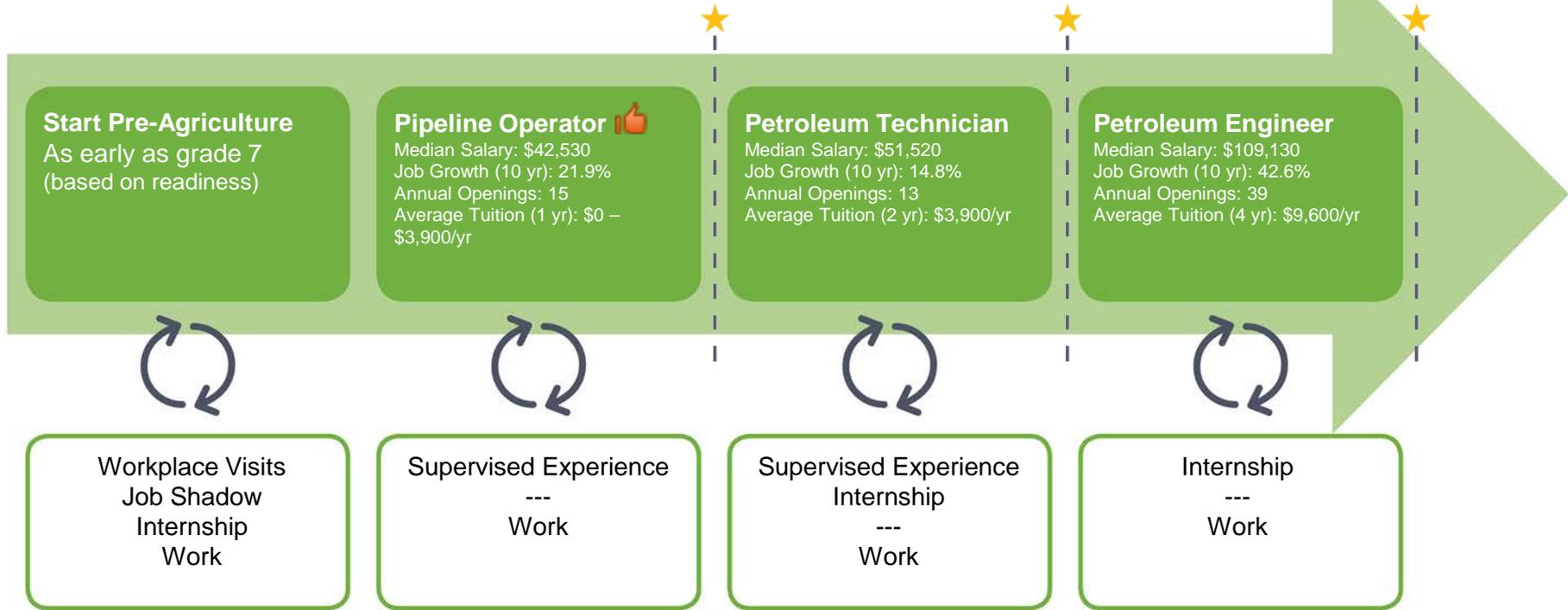


Agriculture and Environmental Systems Career Pathway

Certificate

Associate Degree,
Pipeline Technician

Bachelor's Degree,
Petroleum 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.



Agriculture and Environmental Systems Career Pathway

Secondary Pathway: **Natural Resource Management**

Postsecondary Program: **Petroleum Technology**

An Example of Courses with Secondary and Postsecondary Credits

Secondary	7 8	English I	Algebra I	Science	Social Studies	Fine Arts	Ag, Food, & Natural Resources		
	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Environmental Science	Natural Resources	World Languages
	11	English III	Algebra II	Chemistry	U.S. History	Oil & Gas Operations	World Languages		
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Hydraulics & Pneumatics	Electronic & Electrical Systems		
Postsecondary	Year 1 1st Semester	Interpersonal Communication	Regulations & Compliance	Introduction to Petroleum Industry	Electrical Circuits & Devices	Mechanical Drive Components	Supervisory Control & Data Acquisition		
	Year 1 2nd Semester	Corrosion Basics	Petroleum Instrumentation	Gas Compression & Flow Dynamics	Pipeline Operations	Basic Pumps	Engineering Co-Op		
	Year 2 1st Semester	Physical Geology	College Algebra	College Composition	Chemistry				
	Year 2 2nd Semester	Computer Applications	Physics	Arts & 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 for reference information.

Course titles and sequences will vary between schools.

6/2015