



Environmental Engineering

Environmental engineers solve problems that help clean up our environment by focusing on air and land quality issues. Environmental engineers develop solutions to improve recycling, waste disposal, public health and pollution control. Students in this pathway will study the design process and learn new and exciting ways renewable energy can make the earth more sustainable.



◆ Course Sequence

1. Engineering Design
2. Engineering Principles
3. Environmental Sustainability

◆ Pathway Opportunities

- Paid Internships through All Akron Engineering Program

◆ College Credit Opportunities

- Blue Print Reading
- Computer Aided Drafting
- Computer Applications in Construction
- Principles of Chemistry
- Engineering Drawing
- Engineering Principles
- Environmental Sustainability
- Technical Report Writing
(Prerequisite - College English Composition)
- Tools for Civil Engineering

College Credit Plus general education and other dual credit courses are also available.

◆ Industry Credentials

- 3M Head, Eye and Face Protection
- 3M Hearing and Noise
- 3M Respiratory
- Autodesk Fusion 360
- Fundamentals of Industry 4.0
- Leadership Excellence - Student
- OSHA - 10

Pathway Promise: Completing this pathway will prepare students for success by attaining the skills needed to start an apprenticeship in Engineering adjacent fields, be college-ready for Engineering majors, and military service.



**College & Career
Academies**

AKRON PUBLIC SCHOOLS

NIHF STEM

Environmental Engineering

Entry-Level Careers

- CNC Programmer
- Inventory Control Specialist
- Landscaper
- Machine Operator
- Military Combat Engineer
- Military Geospatial Engineer
- Military Horizontal Construction Engineer
- Military Watercraft Engineer
- Nursery Technician
- Production Fabricator
- Recycling Coordinator
- Solar Sales Associate

Technical Careers

(Advanced certification, Apprenticeship, or Associates Degree)

- CAD Drafter
- Drinking Water Lab Technician
- Environmental Site Assessor
- Environmental Technician
- Global Information Systems Technician
- Green Energy Installer
- Hazardous Waste Site Technician
- Marine Engine Technologist
- Military Special Forces Engineer Sergeant
- Project Scheduler
- Wastewater Treatment Plant Operator
- Watershed Science Technician

Professional Careers

(Bachelor's Degree or higher education)

- Civil Engineer
- CNC Manufacturing Engineer
- Continuous Improvement Engineer
- Environmental Engineer
- Environmental Health & Safety Manager
- Machining/Vocational Instructor
- Mechanical Engineer
- Military Engineer Officer
- Project Manager
- Process Engineer
- Quality Assurance Inspector
- Watershed Management Coordinator