

# Environmental Engineering Technologists and Technicians

SOC: 17-3025 • Career Profile Report

## ■ Key Facts

**\$58,890**

Median Salary

**12,900**

Employment

**+1.0%**

Growth Rate

## ■ Requirements & Salary Range

**Education:** Associate's degree

## ■ Automation Risk Assessment

**Low Risk** - 17.0% probability of being automated in the next 10-20 years.

This job is relatively safe from automation due to its creative, social, or complex problem-solving requirements.

## ■■ Work-Life Balance

**6.4/10** - Good work-life balance

## ■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

Realistic	8.2/10	Investigative	8.8/10
Artistic	6.4/10	Social	5.2/10
Enterprising	5.8/10	Conventional	6.6/10

## ■ Top Skills Required

Communication skills, Critical-thinking skills, Observational skills, Problem-solving skills, Reading skills

### ✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

### ■ Challenges

- Burnout Risk
- Rapid Technological Change

## ■ What They Do

Environmental Engineering Technologists and Technicians assist in **developing, implementing, and monitoring environmental projects and solutions**. They collect and analyze environmental data, support engineers in designing systems, and ensure compliance with environmental regulations. Their work is critical in pollution control, resource management, and sustainable development.

This career is well suited for individuals who enjoy science, environmental protection, and practical problem-solving.

## What Do Environmental Engineering Technologists and Technicians Do?

These professionals collect data, conduct tests, and support environmental engineering projects to protect natural resources and ensure regulatory compliance.

Common responsibilities include:

- Collecting soil, water, air, or waste samples for analysis
- Conducting laboratory or field tests on environmental samples
- Assisting in designing and implementing environmental control systems
- Monitoring pollution levels and environmental conditions
- Preparing reports and documenting findings
- Ensuring compliance with environmental regulations and safety standards
- Collaborating with engineers, scientists, and regulatory agencies

## Key Areas of Environmental Engineering Technology

Technologists and technicians may focus on specific environmental projects or technical functions:

- Water and Wastewater Management: Monitoring and treating water and sewage systems
- Air Quality and Pollution Control: Measuring pollutants and recommending mitigation
- Soil and Hazardous Material Analysis: Testing for contamination and safety
- Environmental Compliance and Regulation: Ensuring adherence to environmental laws
- Data Collection and Reporting: Recording and analyzing environmental metrics

## Skills and Abilities Needed

Environmental engineering technologists and technicians combine technical, analytical, and scientific skills.

### **Core Professional Skills**

### **Personal Qualities That Matter**

## Education and Career Pathway

This role typically requires formal education and technical training:

- Associate or Bachelor's Degree: Environmental engineering technology, environmental science, or related field
- Internships or Co-op Programs: Gaining hands-on experience in laboratories or field studies
- Certifications (optional): Environmental, safety, or laboratory credentials
- On-the-Job Training: Learning sampling, testing, and reporting procedures
- Continuous Learning: Staying current with environmental technologies, regulations, and best practices

## Where Do Environmental Engineering Technologists and Technicians Work?

They are employed in organizations focused on environmental protection, engineering, and compliance:

- Engineering and Consulting Firms

- Government Agencies and Environmental Departments
- Wastewater and Water Treatment Facilities
- Research and Academic Institutions
- Industrial and Manufacturing Companies

Work environments include laboratories, field sites, treatment plants, and offices.

## Is This Career Difficult?

This career requires technical knowledge, attention to detail, and the ability to work in varied environments. Technologists and technicians must perform precise tests, handle equipment safely, and ensure compliance with regulations.

## Who Should Consider This Career?

This career may be a strong fit if you:

- Enjoy environmental science and technical work
- Are detail-oriented and analytical
- Can work in laboratory and field settings
- Value safety, compliance, and sustainability
- Want a career supporting environmental protection and engineering projects

## How to Prepare Early

- Take courses in environmental science, chemistry, biology, and engineering fundamentals
- Gain experience through internships, volunteer work, or laboratory projects
- Develop skills in data collection, analysis, and reporting
- Learn about environmental regulations, safety procedures, and testing techniques
- Explore professional certifications and training in environmental technology

**Environmental engineering technologists and technicians collect data, support engineering projects, and ensure environmental compliance, contributing to sustainable practices and protection of natural resources.**

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*Generated by StartRight • Data from U.S. Bureau of Labor Statistics & O\*NET*

Source: <https://www.bls.gov/ooh/architecture-and-engineering/environmental-engineering-technicians.htm>