



What is Environmental Technology?

Environmental Technology is a career field that applies the principles of math, science, technology, engineering, communication, economics, and law to ensure the health and safety of the worker and community, and protection of the environment. This career field encompasses the management and conservation of natural resources, regulatory compliance, and sustainability.

What is an Environmental Technician?

An environmental technician communicates and applies knowledge, skills, and abilities, and is qualified to perform scientific, technical, and regulatory tasks. Local, state, federal, and/or professional credentials (certifications or licenses) may be required for certain occupations.



DEFINING ENVIRONMENTAL TECHNOLOGY

Air Quality

- Air Process Tech
- Air Quality Tech
- Ambient Air Monitoring Tech
- Geospatial Tech
- Greenhouse Gas Emissions Specialist
- Indoor Air Quality Tech
- Instrumentation Tech
- Mobile Monitoring Tech (Vehicle Emissions)
- Source Sampling Tech

Emergency Preparedness & Response

- Emergency Planning Specialist (All Hazards)
- Emergency Preparedness & Response Trainer
- First Responder (Police/Fire/EMS/Security)
- Hazardous Materials Tech
- Hazardous Materials Trainer
- Homeland Security Specialist

Energy Technologies & Services*

- Buying & Selling Energy Tech
- Energy Assessment Tech
- Energy Efficient Building Construction, Project Engineering, & Implementation Tech
- Exploration & Extraction Tech
- Generation & Utility-Scale Construction Tech
- Regulatory Compliance Tech
- Transmission & Distribution Tech
- Transportation (Mobile) Services Tech

Environmental Information Collection & Analysis

- Environmental Education & Outreach Tech
- Environmental Database Tech
- Environmental Compliance Tech
- Geospatial (GIS, GPS, RS) Tech
- Logistics Tech

Environmental Laboratory Services

- Biofuels Tech
- Biological/Microbiological Lab Tech/Analyst
- Chemist/Analytical Lab Tech
- Instrumentation Tech
- Quality Assurance/Quality Control (QA/QC) Specialist
- Sample Collection & Preparation Tech
- Soil/Geotechnical Properties Tech/Analyst

Environmental Site Management

- Asbestos Tech (Inspector, Abatement Worker, Supervisor)
- Compliance Tech
- Environmental Site Assessor
- Field Services Tech (e.g., Sampling, Monitoring)
- Geology Tech
- Geospatial Tech
- Hazardous Materials Tech
- Land Survey Tech
- Land Use Planning/Redevelopment Tech
- Lead Tech (Inspector, Abatement Worker, Supervisor)
- Mining Reclamation Tech
- Mold Remediation Tech
- Pollution Prevention Tech
- Remediation Tech
- Underground Storage Tank Tech

Natural Resources Management

- Aquatic/Marine Habitat Tech
- Botany Tech
- Coastal Zone Management Tech
- Conservation Officer
- Cultural Resource Management Tech
- Fire Resources Tech
- Fisheries Tech
- Forestry Tech
- Habitat Restoration Tech
- Geology Tech
- Geospatial Tech
- Horticulture/Landscape Tech
- Hydrogeology Tech
- Irrigation Tech
- Naturalist
- Noise Monitoring Tech
- Parks & Recreation Tech
- Precision Agriculture Specialist
- Rangeland Tech
- Regulatory Compliance Specialist
- Soil Conservation Tech
- Survey Tech
- Urban Ecology Tech
- Vet Tech (e.g., Animal Rescue)
- Wetlands Management Tech
- Wildlife/Terrestrial Habitat Tech

Safety & Health

- Chemical Hygiene Officer
- Compliance Officer
- Hazardous Materials Tech
- Health & Safety Tech
- Health Physics/Radiation Safety Tech
- Loss Control/Prevention Tech
- Industrial Hygiene Specialist (e.g., Indoor, Air, Noise)
- Industrial Nurse
- Risk Manager
- Safety & Health Auditor
- Safety & Health Coordinator
- Safety & Health Specialist
- Safety & Health Trainer/Industrial Trainer
- Site Safety & Health Manager

Solid & Hazardous Waste Management

- Biohazard Tech
- Hazardous Waste Tech
- Household Hazardous Waste Tech
- Landfill Tech
- Nuclear Waste Handling/Disposal Tech
- Recycling Tech
- Solid Waste Tech
- Treatment, Storage, & Disposal Facility Tech
- Waste Reduction Tech
- Waste-to-Energy-Tech

Sustainability

- Climate Change Adaptation Specialist
- Climate Change Mitigation Analyst
- Ecological Footprint Analyst
- Efficient Landscaping Tech
- Energy Resource Mgr
- Global Equity Specialist
- Green Product Specialist
- LEED Tech
- Lifecycle Analysis/Product Stewardship Tech
- Permaculture Design Tech
- Smart Growth Tech
- Sustainability Coordinator
- Sustainability Educator/Trainer
- Sustainability Systems Analyst
- Sustainable Design Tech
- Sustainable Process & Procedures Manager
- Transportation & Logistics Specialist
- Urban Agriculture Tech

Wastewater Management**

- Biosolids Management Tech
- Cross-Connection Control Tech
- Decentralized Treatment System Operator
- Fats/Oils/Grease (FOG) Tech
- Graywater Systems Treatment Operator
- Industrial Pretreatment Coordinator
- Industrial Wastewater Treatment Operator
- Instrumentation Tech
- Laboratory Tech
- Land Application Tech
- Municipal Wastewater Treatment Operator
- Plant Maintenance Tech
- Regulatory Compliance Specialist
- Waste-to-Energy-Tech
- Wastewater Collection System Operator

Water Supply & Treatment**

- Desalination Tech
- Drinking Water Lab Tech
- Industrial Water System Operator
- Instrumentation Tech
- Municipal Water Treatment Plant Operator
- Plant Maintenance Tech
- Public Educator
- Regulatory Compliance Specialist
- Source Water Protection Specialist
- Water Conservation Specialist
- Water Distribution System Operator
- Water Meter Tech
- Water Rights Tech
- Water Security & Emergency Preparedness Specialist
- Well Drilling Tech

Watershed Management**

- Equipment Maintenance Tech
- Erosion Sediment Control Tech
- Geospatial Tech
- Ground Water Remediation Systems Tech
- Habitat Restoration Tech
- Heavy Equipment Operator
- Hydrology Tech
- Interbasin Transfer Specialist
- Modeling Tech
- Nutrient Management Specialist
- Permitting Specialist
- Public Educator
- Stormwater Management Tech
- Taxonomy Specialist
- Water Quality Monitoring Tech
- Wetlands Delineation Tech



*Refer to ATEEC's *Defining Energy Technologies & Services* report for further breakdown of occupations and functions.

**Refer to ATEEC's *Defining Water Management* report for further breakdown of occupations and functions.