

Environmental Scientists and Specialists

SOC: 19-2041 • Career Profile Report

■ Key Facts

\$80,060 Median Salary	90,300 Employment	+4.0% Growth Rate
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■ Requirements & Salary Range

Education: Bachelor's degree

■ Automation Risk Assessment

Low Risk - 8.0% 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

7.5/10 - Good work-life balance

■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

Realistic	6.2/10	Investigative	9.4/10
Artistic	5.6/10	Social	6.4/10
Enterprising	4.8/10	Conventional	6.4/10

■ Top Skills Required

Analytical skills, Communication skills, Interpersonal skills, Problem-solving skills, Self- motivation

✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

■ Challenges

- Burnout Risk
- Rapid Technological Change

■ What They Do

Environmental Scientists and Specialists typically perform the following tasks:

- Communicate scientific or technical information to the public, organizations, or internal audiences through oral briefings, written documents, workshops, conferences, training sessions, or public hearings.
- Monitor effects of pollution or land degradation and recommend means of prevention or control.
- Collect, synthesize, analyze, manage, and report environmental data, such as pollution emission measurements, atmospheric monitoring measurements, meteorological or mineralogical information, or soil or water samples.
- Review and implement environmental technical standards, guidelines, policies, and formal regulations that meet all appropriate requirements.
- Provide scientific or technical guidance, support, coordination, or oversight to governmental agencies, environmental programs, industry, or the public.
- Process and review environmental permits, licenses, or related materials.
- Conduct environmental audits or inspections or investigations of violations.
- Provide advice on proper standards and regulations or the development of policies, strategies, or codes of practice for environmental management.
- Prepare charts or graphs from data samples, providing summary information on the environmental relevance of the data.
- Research sources of pollution to determine their effects on the environment and to develop theories or methods of pollution abatement or control.
- Supervise or train students, environmental technologists, technicians, or other related staff.
- Monitor environmental impacts of development activities.
- Evaluate violations or problems discovered during inspections to determine appropriate regulatory actions or to provide advice on the development and prosecution of regulatory cases.
- Analyze data to determine validity, quality, and scientific significance and to interpret correlations between human activities and environmental effects.
- Investigate and report on accidents affecting the environment.
- Develop the technical portions of legal documents, administrative orders, or consent decrees.
- Design or direct studies to obtain technical environmental information about planned projects.
- Determine data collection methods to be employed in research projects or surveys.
- Conduct applied research on environmental topics, such as waste control or treatment or pollution abatement methods.
- Develop programs designed to obtain the most productive, non-damaging use of land.

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

Source: <https://www.bls.gov/ooh/life-physical-and-social-science/environmental-scientists-and-specialists.htm>