



Environmental Science

Environmental Remediation and Compliance

Ground water

Surface water

Soils

Air

Sediments:

- Remediation
- Liability
- Audit
- Compliance
- Sustainability

Environmental Remediation and Compliance Employers

Federal government:

- **Army Corps of Engineers**
- **Department of Interior: Bureau of Reclamation, Office of Surface Mining, Bureau of Land Management**
- **Department of Agriculture**
- **Natural Resource Conservation Service**
- **Environmental Protection Agency**
- **Department of Defense**

Agricultural consulting firms

Environmental consulting firms

Environmental Remediation and Compliance Strategies

Gain experience through internships, volunteer or other part-time positions with government or private remediation projects.

Develop excellent communication skills, both oral and written, as well as the ability to work as part of a team.

Conduct regulatory research regarding environmental issues in area of interest.

Plan to travel to worksites.

Seek experience with data management, analysis and tools used for remediation (e.g., GIS, CADD, and regulatory/compliance software).

OSHA HAZWOPER training may be required for some positions.

Waste Management

Risk assessment

Quality control

Logistics

Industrial hygiene

Planning

Recycling

Transportation

Compliance

Environmental engineering

Public and environmental health

**Waste
Management
Employers**

Environmental Protection Agency

Department of Energy

**City/county waste management
departments**

Recycling centers

Private waste management firms

Consulting firms

Nonprofit organizations

Waste Management Strategies

Pursue experience through volunteer, paid, and intern positions related to waste management.

Seek opportunities to hone communication skills, both written and oral. Take courses in technical writing.

Develop decision-making and problem-solving skills, diplomacy and the ability to work under pressure.

Demonstrate flexibility and willingness to look at issues from various perspectives.

Gain familiarity with current technologies, regulations and statutes.

Join community groups or service organizations that focus on environmental awareness; attend public meetings about waste management.

Become familiar with Superfund and its programs. Learn about the activities of local chapters of citizen watch groups.

Soil Science

Soil and water conservation

Land use planning

Waste disposal

Environmental compliance

Reclamation of contaminated lands

Landfill operation and monitoring

Agrichemical management

Fertilizer technology

Agricultural production:

- **Food and fiber**

Research

Education

Soil Science Employers

Federal government:

- **Environmental Protection Agency**
- **Natural Resource Conservation Service**
- **Department of Agriculture**
- **Department of Health and Human Services**

State farm bureaus

Environmental research laboratories

Agricultural or environmental consultant firms

Privately owned farms and ranches

Universities

Soil Science Strategies

Develop acute observational skills.

Seek related experience through co-ops, internships or part-time jobs in area of interest.

Gain extensive laboratory and research experience to prepare for research positions.

Stay abreast of current environmental issues: policy, conservation and industry trends.

Seek knowledge of technology used in natural resource management: software, geographical information systems and global positioning systems.

Participate in related clubs, organizations and soil judging teams to build contacts and cultivate academic interests.

Learn about certification programs offered by the Soil Science Society of America including soil science and agronomy.

Air and Water Quality Management

Testing/Analysis

Watershed management

Stream restoration

Sustainable infrastructure

Risk assessment

Project development

Compliance

Permitting

Modeling

Air and Water Quality Management Employers

Federal, state, and local government:

- **Environmental Protection Agency**
- **Natural Resource Conservation Service**
- **Fish and Wildlife Service**
- **Department of Agriculture**

Public works departments

Geological survey

Consulting firms

Private laboratories

Nonprofit organizations

Water treatment plants

Consumer products manufacturers

Air and Water Quality Management Strategies

Develop strong research skills through coursework with laboratory components, by assisting faculty with research projects or through related internships and jobs.

Seek experience in student and community organizations related to the environment such as those focused on water resources, pollution or conservation.

Stay up-to-date with local and federal regulatory agencies and laws pertaining to your specialty.

Develop strong oral communication and technical writing skills, as well as the ability to collaborate in a team environment.

Learn to use the tools and software associated with watershed modeling or air dispersion modeling

Investigate certification programs offered by the American Institute of Hydrology.

Be willing to work and travel to various client sites.

Planning and Conservation

Natural resource management: land, soil, water, plants, animals

Sustainability management

Water resources

Aviation planning

Transportation planning

Building/Zoning

Land acquisition

Land use

Recreation management

Park/Preserve management

Mining

Construction

Renewable energy

Planning and Conservation Employers

Federal, state, and local government:

- Environmental Protection Agency
- Natural Resource Conservation Service
- National Oceanic and Atmospheric Administration (NOAA)
- Fish and Wildlife Service
- National Park Service
- Department of Agriculture
- Department of Transportation
- Public works departments
- Planning departments

Real estate development companies

Utilities companies

Forestry companies

Wildlife ranges

Indian nations

Mining companies (e.g., petroleum, mineral)

Market research companies

Colleges and universities

Nonprofit organizations

Land trust organizations: The Nature Conservancy or Trust for Public Land

Zoological parks

Hunting and fishing clubs

Consulting firms

Planning and Conservation Strategies

Obtain experience through volunteer positions such as Student Conservation Association, and seek leadership positions.

Seek research experience with professors, through coursework or through internships in the industry.

Develop knowledge of land and water policies, ecology and conservation history. Real estate experience may be beneficial for some positions.

Participate on planning boards, commissions and committees to stay abreast of local planning and conservation initiatives.

Hone communication and negotiation skills for interacting with various stakeholders: land owners, elected officials, and conservation and community representatives.

Environmental Law

Political action/Lobbying

Regulatory Affairs

Science Policy

Patent Law

Non-profit or public interest

Environmental law

Mediation

Environmental Law Employers

Federal and state government:

- Environmental Protection Agency
- Department of Justice
- Attorney General Offices

Political action committees

Nonprofit organizations (e.g., Green Action and Natural Resources Defense Council)

Law firms

Large corporations

Environmental Law Strategies

Develop strong research and writing skills. Hone communication skills through public speaking courses, debate team or Toast Masters, a public speaking organization.

Participate in pre-law honor societies and seek guidance from campus pre-law advisors.

Maintain current knowledge of industry trends, laws and, policies specific to area of interest (e.g., conservation, regulation compliance, etc).

Take courses in history, political science and/or legal studies to supplement science curriculum.

Learn about the law school admissions process, maintain a high GPA and plan to perform well on the LSAT. Research schools with concentrations of interest (e.g., environmental law and policy, conservation, sustainable development).

General Environmental Science Information

Environmental studies and environmental science differ from each other in the amount of science course work required.

Environmental studies provides a broad base of hard sciences as well as social science coursework. Environmental science incorporates hard sciences and environmental sciences.

Choice depends upon career focus, for example, administration or policy-making versus technical areas or research.

Pursue volunteer or internship experience to test fields of interest and gain valuable experience. Take independent research classes if possible.

Stay up-to-date with changing environmental legislation by reading related literature and journals and participating in professional associations.

Attend seminars, conferences and workshops sponsored by professional associations or public interest groups and utilize networking opportunities.

Learn local, state and federal government job application procedures. Utilize your campus career center staff for assistance.

A bachelor's degree will qualify one for work as a laboratory assistant, technician, technologist or research assistant in education, industry and government.

A bachelor's degree is also sufficient for nontechnical work in writing, illustration, sales, photography, and legislation.

A master's degrees allow for greater specialization in a field and more opportunities in research and administration. Some community colleges will hire Master's level teachers.

Doctoral degrees are necessary for advanced research and administrative positions, university teaching and independent research.