



# ENVIRONMENTAL SCIENCE

**Bachelor of Science: Environmental Science/ Biology**  
**Bachelor of Science: Environmental Science/ Chemistry**  
**Bachelor of Science: Environmental Science/ Geography**  
**Bachelor of Science: Environmental Science/ Geology**  
**Bachelor of Science: Environmental Science/Regenerative Agriculture**

The Bachelor of Science program in Environmental Science provides specialized training to prepare students to obtain employment as environmental scientists or for graduate studies in the natural or environmental sciences. The Environmental Science Program is an interdisciplinary program with a curriculum that is designed to provide students the opportunity to specialize in biology, chemistry, geography, or geology. Students in the Environmental Science Program are encouraged to pursue internships for course credit and to conduct research projects using the specialized facilities and equipment available at KU. Employers recommend one or more internships to be successful and competitive when entering this field.

## Career types associated with Environmental Science

*(Is this a good fit for you? Are you a...)*

- Investigative - "Thinker"
- Enterprising - "Leader"
- Realistic - "Doer"

## Related skills, values, and qualities

- Proficiency in reading, writing, thinking, questioning, analyzing and problem solving
- Ability to organize, analyze & interpret scientific research
- Ability to make critical observations & appropriate decisions
- Good manual dexterity and ability to operate scientific equipment
- Aptitude for accuracy and detail
- Ability to conduct and explain scientific research

## Courses Environmental Science majors typically enjoy

- Biology
- Earth Science
- Economics
- Geography
- Social Sciences

## Common interests of Environmental Science majors

- Attending science exhibits, visiting nature centers, zoos or museums
- Participating in environmental and/or science clubs
- Hiking, camping, backpacking and other outdoor activities
- Working part-time or volunteering in a greenhouse, animal sanctuary, or with an environmental conservation group
- Watching programs about the environment

## For more information about the major

Contact the Physical Sciences Department, 425 Boehm, 610-683-4447, or visit [www.kutztown.edu/EnvironmentalScience](http://www.kutztown.edu/EnvironmentalScience)

## KU Majors related to Environmental Science

Biology, Chemistry, Geology, Geography, Marine Science, Secondary Education— Science

Investigative students may also be interested in: Anthropology, Biochemistry, Computer Science, Criminal Justice, Economics\*, German Studies, History, International Studies\*, Mathematics, Multicultural Studies\*, PA German Studies\*, Physics, Political Science, Psychology, Sociology, Spanish, and Women's Studies\*

\* minor only

# FOUR STEPS TO SUCCESS

EXPLORE

DISCOVER

EXPERIENCE

IMPLEMENT

1<sup>ST</sup> YEAR

2<sup>ND</sup> YEAR

3<sup>RD</sup> YEAR

4<sup>TH</sup> YEAR

- Enroll in the Career Exploration Certificate.
- Attend info sessions to learn about career development and personal branding.
- Take a career assessment to identify and confirm interests.
- Get involved in campus clubs and organizations.
- Develop basic workplace skills through jobs or volunteer work.
- Talk with professors, family, and friends about career ideas.
- Conduct informational interviews with professionals working in fields of interest.
- Develop a relationship with your professors and faculty advisor.
- Meet with CDC career coach.
- Attend info sessions to learn about resume writing, and externships.
- Confirm your choice of major and consider options for double major or minor.
- Research careers of interest.
- Complete a job shadowing (externship) experience.
- Seek meaningful employment or volunteer work in a field related to your major.
- Explore options for undergraduate research and study abroad.
- Write a resume and have it reviewed by the CDC.
- Manage your online presence.
- Enroll in the Career Success Certificate.
- Complete an internship and/or undergraduate research.
- Attend info sessions about internships, interviewing, job search strategies, and grad school.
- Build a LinkedIn profile and continue to monitor your online presence.
- Complete a mock interview.
- Build skills through research projects, part-time employment, and volunteer work.
- Participate in employment panels, site visits & networking programs.
- Attend internship & job fairs.
- Take on a leadership role in a student organization or work.
- Consider graduate school options and prepare for
- Attend your Senior Kick-off and other info sessions to prepare for job search/grad school.
- Update your resume and LinkedIn profile.
- Create cover letter drafts.
- Gain experience through internships and/or undergraduate research.
- Secure references for job/grad school applications.
- Create your "30 second" commercial/elevator pitch.
- Meet with CDC to develop job search strategies.
- Research employers.
- Network with professionals through events and social media.
- Join a professional organization in your discipline.
- Attend the senior etiquette luncheon or dinner.
- Participate in job fairs and on-campus interviewing.

## Sample Career Titles

Environmental Science majors can be found working in a wide variety of career fields. Here are just some career titles that may be of interest. Please note that some jobs may require further education and training. To learn more about these careers, visit <http://online.onetcenter.org> or [www.bls.gov/oco](http://www.bls.gov/oco).

- Agricultural Scientist
- Agricultural Technician
- Air And Water Quality Manager
- Air Pollution Analyst
- Biochemist
- Biologist
- Biomedical Engineer
- Biotechnologist
- Chemical Technician
- Chemist
- City Planner
- Civil Engineer
- Conservation Agent
- Conservation Systems Analyst
- Consumer Safety Inspector
- Earth Scientist
- Ecologist
- Engineering Technician
- Environmental Analyst
- Environmental Consultant
- Environmental Educator
- Environmental Engineer
- Environmental Planner
- Environmental Health Specialist
- Environmental Lawyer
- Environmental Lobbyist
- EPA Inspector
- EPA Statistician
- Fisheries Conservationist
- Forest Ranger
- Forester
- Fund Raiser
- Geographer
- Geologist
- Geophysicist
- Hazardous Waste Manager
- Hydrologist
- Industrial Hygienist
- Journalist, Author, Photographer
- Management Consultant
- Meteorologist
- Microbiologist
- Natural Resource Specialist
- Natural Resources Conservationist
- Occupational Safety Specialist
- Ocean Technician
- Oceanographer
- Outdoor Trip Leader
- Park Ranger
- Pharmacy Technician
- Project Manager
- Public Health Veterinarian
- Range Manager
- Resource Economist
- Seismologist
- Soil Conservation Technician
- Teacher
- Urban And Regional Planner
- Water/Wastewater Plant Operator
- Wildlife Manager/Zoologist

## Common Internship Sites and Employers

Environmental Science majors often find internships and employment in the following fields/industries.

- Book/Journal Publishers
- Business and Industry
- College/Universities
- Environmental Consulting Firms
- Laboratories
- Non-Profit Organizations
- Park Systems/Nature Preserves
- Pharmaceutical Companies
- State/Federal Government



Handshake is the primary online resource  
for preparing and connecting students and alumni with employers.  
[www.kutztown.edu/handshake](http://www.kutztown.edu/handshake)

## Useful Websites for Environmental Science Majors

Whether you are researching related career fields, applying for internships or jobs, or planning to join a professional association, these websites are for you!

<b>Industry/Employment Information</b>	<b>Job/Internship Search Sites</b>	<b>Professional Associations</b>
Earth Magazine <a href="http://www.agiweb.org">www.agiweb.org</a>	Federal Careers <a href="http://www.usajobs.gov">www.usajobs.gov</a>	American Water Resources Association <a href="http://www.awra.org">www.awra.org</a>
Environmental Protection Agency <a href="http://www.epa.gov">www.epa.gov</a>	EcoEmploy <a href="http://www.environmentalcareer.com">www.environmentalcareer.com</a>	Association for Environmental Studies and Sciences <a href="https://aessonline.org">https://aessonline.org</a>
Careers in Federal Government <a href="http://www.makingthedifference.org">www.makingthedifference.org</a>	EnviroLink <a href="http://www.envirolink.org">www.envirolink.org</a>	Ecological Society of America <a href="http://www.esa.org">www.esa.org</a>
Natural Resources Job Search <a href="http://www.cyber-sierra.com/nrjobs">www.cyber-sierra.com/nrjobs</a>	Environmental Careers World Job Bank <a href="http://www.environmentaljobs.com">www.environmentaljobs.com</a>	North American Association for Environmental Education <a href="http://www.naaee.org">www.naaee.org</a>
Science Careers <a href="http://sciencecareers.sciencemag.org">http://sciencecareers.sciencemag.org</a>	New Scientist Jobs <a href="http://www.newscientistjobs.com">www.newscientistjobs.com</a>	National Environmental Health Association <a href="http://www.neha.org">www.neha.org</a>
Student Conservation Association, Inc. <a href="http://www.thesca.org">www.thesca.org</a>	Solar Jobs <a href="http://www.letsgosolar.com">www.letsgosolar.com</a>	National Association of Environmental Professionals <a href="http://www.naep.org">www.naep.org</a>
	LinkedIn Jobs <a href="http://www.linkedin.com/jobs">www.linkedin.com/jobs</a>	National Recreation & Park Association <a href="http://www.nrpa.org">www.nrpa.org</a>

### Related Area Employers

Alliance for Sustainable Communities - Lehigh Valley, Appalachian Trail Conservancy, Barry Isett & Associates, Inc., Berks Nature, Bowman's Hill Wildflower Preserve, City of Reading Public Works/Sustainability & Solid Waste, City of Philadelphia, East Penn Manufacturing, Gateway National Recreation Area, Giorgi Companies, Hawk Mountain Sanctuary, Heritage Conservancy, Hopewell National Park, Lehigh Gap Nature Center, Lehigh Valley Zoo, Longwood Gardens, Monroe County Conservation District, PACE Environmental, Pennsylvania Department of Conservation and Natural Resources, Pennsylvania Department of Environmental Protection, Philadelphia Zoo, Rodale Institute, Suburban Testing Labs , U.S. Army Corps of Engineers Blue Marsh Lake, Valley Forge National Park, Wildlands Conservancy

# Building Your Resume for a Career in Environmental Science

Building a strong resume for your career field starts long before you ever start your job search. Employers want to hire graduates who not only have the necessary educational background but also have experience applying that knowledge.

**Eric Environmental Science**  
eenvi000@live.kutztown.edu, 555-555-5555

## QUALIFICATIONS

- Experience with field research techniques including water quality sampling and aquatic life surveys
- Excellent oral and written communication skills
- Ability to work independently and as a cooperative team member
- Strong research, presentation and critical thinking skills

## EDUCATION

B.S. Kutztown University of Pennsylvania  
Major: Environmental Science/Biology, Minor: Geography  
GPA: 3.71

Kutztown, PA  
Dec 20xx

## INTERNSHIP & EXTERNSHIP EXPERIENCE

Pennsylvania Department of Environmental Protection  
Water Quality & Environmental Research Intern

Harrisburg, PA  
Summer 20xx

- Performed fish and mussel surveys following environmental research protocol
- Prepared and examined mussel tissue samples
- Collected and analyzed water quality samples from river stream transects
- Organized and identified water quality samples using DEP Sample Information System (SIS)

Hawk Mountain Sanctuary  
Extern

Kempton, PA  
March 20xx

- Witnessed population tracking of various species including Northern Goshawk & Gypsy Moths
- Observed and documented ospreys during nesting period

## CAMPUS INVOLVEMENT & LEADERSHIP

President, Kutztown University Environmental Action Club

Fall 20xx-Present

- Organize and facilitate bi-weekly club meetings
- Coordinate and promote club fundraising events
- Secured funding for monthly educational field trips to locations including Hawk Mountain and Crystal Cave

Member, Kutztown University Environmental Action Club

Fall 20xx-Present

Presidential Ambassador, Kutztown University

Fall 20xx-Present

- Work directly with President's Office to promote student-alumni connection events such as career networking nights, homecoming festivities, and alumni dinners

Volunteer, Science Olympiad, Kutztown University

Winter 20xx

- Assist high school-level participants with science-related activities including research technique instruction

## WORK EXPERIENCE

Texas Roadhouse  
Server/Hostess

Trexlerstown, PA  
Sept 20xx-Present

- Ensure customer satisfaction and resolve issues
- Train new employees by reviewing restaurant procedures and proper customer service techniques

## HONORS & AWARDS

Dean's List

Fall 20xx-Spring 20xx

Cumma Sum Lade

Fall 20xx

Environmental Science Scholarship

Fall 20xx

Career Success Certificate, Kutztown University Career Development Center

Spring 20xx

Career Exploration Certificate, Kutztown University Career Development Center

Fall 20xx

Learn more about your field and develop the necessary skills for employment by gaining hands-on experience through clinical practice.

Utilize summer breaks to acquire valuable experience via volunteer or employment opportunities related to your major.

Develop professionally through campus involvement and professional memberships. This illustrates responsibility, leadership abilities and time management skills.