

All you need to know about the Environmental Health Science Major

Department of Health Science & Human Ecology

Prepared by: Dr. Mahmood Nikbakhtzadeh

mahmood.nikbakhtzadeh@csusb.edu

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What is Environmental Health?

A scientific major (STEM) that focuses on the **preservation of natural resources** and **improvement of various environmental factors** that impact the health and safety of the community and **addressing the growing concerns about the effect of climate change** on human population.



Environmental Health is NOT Environmental Science

Environmental Science



Studying Environment & Environmental Issues



Environmental Health



Studying the Effect of Environment & Human Interventions on our Health & Well-being



Who is an Environmental Health Specialist (EHS)?

- After graduating with your BSc degree, you will receive the title of “Environmental Health Specialists”.
- Environmental health specialists (EHSs) educate and consult clients, enforce regulations, help improve indoor and outdoor environmental conditions, do research on the impact of environmental factors on human being or provide safety check services to their clients.



What are subfields of EHS?

- Air Pollution & Control
 - Water Pollution & Control
 - Food Safety
 - Medical & Hazardous Waste
 - Solid Waste
 - Toxic Substances
 - Vector-borne Diseases
 - Pesticides Safety
 - Recreational Health
 - Radiation
 - Noise Pollution & Control
 - Occupational Health and Safety
 - Community Health Education
- And many more areas!**



A photograph of an industrial facility, likely a refinery or chemical plant, silhouetted against a dramatic sunset sky. The sky is filled with orange and yellow clouds, and several tall smokestacks are visible, some emitting dark plumes of smoke. The foreground is dark, showing the silhouettes of buildings and pipes.

Air Quality Management

- Air quality surveillance
- Facility inspection
- Facility permitting
- Emissions regulation: industry & transportation
- Public education
- Research opportunities

Water Quality Management

- Water sampling
- Well inspection
- Wastewater treatment
- Percolation test
- Disease investigation
- Research opportunities





Climate change

- Rising Ocean water
- Floods
- Deforestation
- Too many research opportunities

Acidification

- Ocean acidification
- The effect on aquatic life
- Acid rain
- Effect on soil, agriculture & human life
- Research opportunities

Ocean Acidification

Here is where your presentation begins

Food Quality Control

- Facility inspections
- Milk sampling
- Disease investigations
- Health education
- Plan checks



Hazardous Material Management

- Facility inspections
- Emergency response
- Household waste collection
- Medical waste





Vector-Borne Disease Control

- Vector Surveillance
- Disease surveillance
- Vector control
- Public education
- Research opportunities

Recreational Health

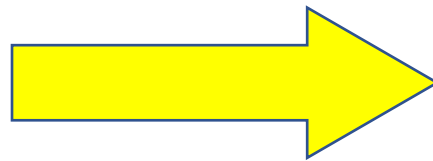
- Beach inspection
- Community swimming pool inspections
- Ski area inspection
- Playground safety
- Parks & Recreational lakes



WORK SAFETY



**Occupational
Health & Safety**



- Facility inspection
- Workplace safety
- Area sampling & testing
- Risk assessment

Building & Land Use Enforcement



Building & Land use

- Land zoning
- Code enforcement



California State University, San Bernardino, offers:
Bachelor of Science in Environmental Health Science

- CSUSB Environmental Health program is accredited by CDPH and nationally by EHAC.

**Most top jobs require graduation from nationally accredited programs.
EHS program at CSUSB is fully accredited.**

For more than 30 years, this Program has produced quality graduates, placed in stable positions in the environmental health discipline throughout Southern California

Environmental Health Science Major as Your Pre-Med

- You can use your EHS major if you are planning for **Medical**, **Dental** or **Pharmacy** school.
- This way, You earn a wonderful BSc degree with plenty of jobs and at the same time can use it towards admission to the Med School.
 - It is a win-win situation!





- You can choose EHS as your minor
 - It gives you a lot of flexibility
- Increases your chance in securing a job right after graduation

Numerous Paid Internship Opportunities

\$5,000 for 200 hours

WE'RE HIRING!

Environmental Health & Safety Intern

What You Will Work On:

- **Review** department operating manuals for process standard operating procedures
- **Observe** and communicate with production stakeholders as they complete their daily task
- **Utilize** hierarchy of control, hazard, and PPE references to determine all relevant hazards and control methods
- **Document** findings on JHA forms

APPLY NOW!

Not Your Average Internship®!



\$10,000 for summer internships



ENVIRONMENTAL HEALTH/ SCIENCES FELLOWSHIP AT BATH & BODY WORKS

Environmental Sustainability Fellow

Brand: Bath & Body Works
Location: Denver, CO, US
Location Type: Remote
Job ID: 03T85

Job Area: Internship
Employment type: Full-time
Salary Range: \$19.80 – \$29.60



\$6500 for 9 weeks



Become a STEER intern this summer 2024!

Berkeley
UNIVERSITY OF CALIFORNIA

Internship Dates

June 17 - August 16, 2024

Why STEER?

- Learn about the research process and the responsible conduct of science
- Meet and talk with current graduate students and postdocs to learn more about continuing in graduate studies
- Present your findings from your summer research at a symposium

What is STEER?

STEER is a 9-week internship in environmental health science for undergraduate students and recent graduates to help prepare them for graduate school, and a career path in environmental health. Through this internship, interns gain valuable research experience and transferable skills working with faculty mentors. STEER also serves to provide professional and career development support to interns throughout and after the internship.

Apply by March 3 | coeh.berkeley.edu/steer

San Bernardino District Attorney

Environmental Health Science Internship



About the Internship

Fall 2024

Students will assist in prosecuting cases against companies and individuals who violate environmental laws. Students will receive HAZWOPER training and have the opportunity to get field experience, conduct hazardous waste audits, perform sampling on illegal agriculture sites, and work closely with local environmental agencies.

What You'll Gain

- HAZWOPER Certification
- Field Experience
- Network with local agencies
- Perform Sampling



Other advantages of our EHS Major

- The EHS Program at CSU San Bernardino is a great path for students who want to get a well-paid, full time and stable job right after graduation.
- Taking care of environment and the impact of environment on human is getting more important and more funds, resources and attention are devoted to that.
- The future is here!



Job Outlook for Environmental Health Graduates

The EH workforce is aging, presenting recruitment needs

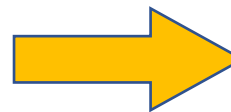
1 in 4 EH professionals is over 55 years of age.

1 in 4 EH professionals plans to retire within 5 years.



State and local governmental health departments need an 80% increase in their workforce to provide a minimum set of public health services to the nation (2021 de Beaumont/phnci study).

There is a current need for 9,500 new Environmental Health full time employees!



	Local	State	Total
Foundational Areas			
Communicable Disease	4,500	1,500	6,000
Environmental Health	7,500	2,000	9,500
Maternal and Child Health	5,500	1,000	6,500
Access/Linkage to Care	3,500	1,000	4,500

Source: Journal of Environ Health. 2019. 81(10): 24-33

EHS Job Market

EHS Job opportunities exist in a vast array of entities:

- City, County, and State environmental health agencies
- Federal agencies, such as: EPA, FDA and CDC
- US Public Health Service
- Military (Air Force, Army, Navy and Coastal Guard)
- US Aid
- Tech companies (Google, Microsoft, Apple, etc.)
- Special Districts (Air quality management, Vector control, Water, Conservation, Schools)
- Private sector (hospitals, environmental groups, retail giants, chain restaurants and insurance companies)

Salary Example:

Annual Pay of the Entry-level County jobs in Southern California

Orange County

Salary range: **\$85,000 to \$100,000**



Riverside County

Salary range: **\$75,000 to \$95,000**



San Bernardino County

Salary range: **\$70,000 to \$90,000**



San Diego County

Salary range: **\$80,000 to \$100,000**



Salary after 4 years in Riverside County:



\$100,000- \$120,000

Salary of Environmental Health Jobs Throughout California

City	Annual Salary	Monthly Pay	Weekly Pay	Hourly Wage
Berkeley	\$95,005	\$7,917	\$1,827	\$45.68
Santa Monica	\$90,945	\$7,578	\$1,748	\$43.72
Daly City	\$89,910	\$7,492	\$1,729	\$43.23
Gilroy	\$87,630	\$7,302	\$1,685	\$42.13
San Mateo	\$87,446	\$7,287	\$1,681	\$42.04
Richmond	\$87,085	\$7,257	\$1,674	\$41.87
Irvine	\$86,209	\$7,184	\$1,657	\$41.45
Downey	\$86,108	\$7,175	\$1,655	\$41.40
Victorville	\$85,975	\$7,164	\$1,653	\$41.33
Westminster	\$85,920	\$7,160	\$1,652	\$41.31

Last Updated : December 26, 2023

WE'RE HIRING

HOLLISTER, CA

Environmental, Health & Safety (EHS) Specialist

Salary: \$85-\$100K

Requirements/Skills:

- Bilingual: English/Spanish
- Associate degree or greater in accredited Safety, Engineering, or a related field is highly desired.
- Three (3) to five (5) years of experience in EHS related field.
- Considerable knowledge of Federal EPA/OSHA, State, and local regulations (preferably manufacturing setting)

Phone: 831-664-9829
HOLLISTER@FULLSTEAMSTAFFING.COM

Address:
191 San Felipe Rd Suite O
Hollister, CA 95023



Junior Commissioned Officer Student Training and Extern Program (JRCOSTEP) Overview

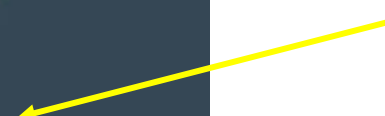
Students in health-related undergraduate, masters and doctoral programs can train alongside active duty officers during their school breaks as part of the JRCOSTEP. Participants are paid, and receive health benefits, housing and travel allowances. Programs last between 30 and 120 days. Participants become inactive Public Health Service officers upon completing the program and can activate upon graduation. There is no obligation to join the USPHS Commissioned Corps.

Eligibility

- **Undergraduates** with at least two years of study toward a baccalaureate degree in environmental health, engineering, nursing, pharmacy, physician assistant, dental hygiene, dietetics, medical laboratory technology, medical record administration, or occupational, physical, or respiratory therapy.
- **Master's students** who have completed at least one year of graduate study in nursing, a physician assistant program, environmental health, engineering, social work, public health, dietetics, healthcare administration, audiology, speech pathology, or occupational, physical, or respiratory therapy.
- **Doctoral students** who have completed at least one year of study in a doctoral program for medicine, dentistry, pharmacy, psychology, veterinary medicine, speech-language pathology, audiology, research science, or occupational, physical, or respiratory therapy.

- **US Public Health Service** is a great place to work!
- You can join either as a senior student or right after graduating from our EHS program.
- These are very stable positions with good pay and all the benefits.

EHS graduates
or
EHS students



Work will pay your Grad School Tuition!

- If you get a position with any special Districts, they support you to pursue a graduate degree.
- Graduate school with no cost!
- Your position will be saved for you.
- You will immediately start working at your own agency with a higher position and pay.
- It is a great opportunity: Work and study with a guaranteed job!



Federal Agencies with Jobs for EHS

- Environmental Protection Agency (EPA)
- Food & Drug Administration (FDA)
- Center for Disease Control and Protection (CDC)



State Agencies with Jobs for EHS- 1

- **California Department of Public Health (CDPH)**

<https://www.cdph.ca.gov/>



- **California Environmental Protection Agency**

<https://calepa.ca.gov/>



- **California Department of Water Resources (DWR)**

<https://water.ca.gov/>



- **California Department of Toxic Substances Control (DTSC)**

<https://dtsc.ca.gov/>



State Agencies with Jobs for EHS- 2

* **California Department of Conservation**

<https://www.conservation.ca.gov/>



California
**Department of
Conservation**

* **California Air Resources Board (CARB)**

<https://ww2.arb.ca.gov/>



* **California Department of Pesticide Regulation**

<https://www.cdpr.ca.gov/>



State Agencies with Jobs for EHS- 3

- **California Natural Resources Agency**

<https://resources.ca.gov/>



- **California Department of Fish and Wildlife**

<https://wildlife.ca.gov/>



- **California Department of Forestry and Fire Protection**

<https://www.fire.ca.gov/>



- **California Department of Parks and Recreation**

<https://www.parks.ca.gov/>



California
Department of
Parks and Recreation

Who to communicate?

1. On CSUSB campus: Physical Science building, 2nd Fl. Office

2. On Internet:

<https://www.csusb.edu/health-science-human-ecology/environmental-health-science>

3. E-mail: Mahmood.Nikbakhtzadeh@csusb.edu

4. Search Google: CSUSB Environmental Health Science

