



University of California at Davis

Environmental Toxicology



Environmental Toxicology Career and Job Opportunities



Environmental Toxicology encompasses the study of the toxic properties of virtually all chemicals (both naturally occurring and man-made), including their effects on humans and other species as well as their movement and fate in the environment. As a graduate of our program, you would be an expert on the properties of a number of chemicals including pesticides, solvents, natural toxins, PCBs, and dioxins. You would have knowledge of processes of environmental scope such as global warming, acid rain, and ozone depletion as well as those at the molecular level such as the chemical mechanism of cancer and other toxic actions.

In addition, our graduates are well-versed in chemistry, biochemistry, molecular biology and toxicology and are very unique. Thus, they have a tremendous selection of career opportunities and multiple job offers upon graduation! Typically, our alumni pursue graduate degrees as well as professional degrees. They also entertain a wide range of opportunities in the chemical industry, pharmaceutical industry, biotechnology, and environmental consulting firms. Our graduates are highly sought by governmental agencies as well.



(Note: Job titles listed in green ink are examples of positions that have been advertised on the respective websites.)

- U.S Environmental Protection Agency ---
<http://www.epa.gov/careers/>
- Cal Environmental Protection Agency ---
<http://www.calepa.ca.gov/Employment/>
- Cal Recycle
<http://www.calrecycle.ca.gov/Jobs/>
- Integrated Waste Management Specialist
- Cal Air Resources Board ---
<https://ww2.arb.ca.gov/homepage>
- Air Pollution Specialist
- Air Resources Field Representative
- Air Resources Engineer
- Automotive Emission Test Specialist
- Instrument Technician, Air Quality
- Cal Department of Pesticide Regulation ---
<http://www.cdpr.ca.gov/docs/dept/psb/home.htm>
- Environmental Scientist
- Research Aide
- U.S. Army Corps of Engineers ---
<http://www.usace.army.mil/careers.aspx>
- Natural Resource Specialist
- Chemist
- Ecologist
- Project Manager

- Cal Department of Toxic Substances Control ---
<https://dtsc.ca.gov/>
- Hazardous Substance Scientist
- Cal Office of Environmental Health Hazard Assessment ---
<http://www.oehha.ca.gov/jobs.html>
- Research Scientist
- Staff Toxicologist
- Cal State Water Resources Control Board ---
http://www.waterboards.ca.gov/about_us/employment/
- Environmental Scientist
- Cal Department of Fish and Wildlife ---
<https://www.wildlife.ca.gov/Employment>
- Biologist
- Environmental Scientist
- Fish and Wildlife Technician
- Cal OSHA ---
<https://www.dir.ca.gov/dirjobs/>
- Junior Industrial Hygienist
- Assistant Industrial Hygienist
- Food and Drug Administration ---
<http://www.fda.gov/jobs>
- Research Scientist
- Food Biochemist
- Flavor Chemist



Industry

CHEMICAL:

- Chevron Corporation --- <http://careers.chevron.com/>
- Hazard Communication Specialist
- Staff Toxicologist
- Shell ---
<http://www.shell.com/global/aboutshell/careers.html>
- Exxon Mobile <http://careers.exxonmobil.com/>
- Environment and Safety Engineer

BIOTECH:

- Genentech --- <http://www.gene.com/careers>
- Quality Control (QC) Analyst

PHARMACEUTICAL:

- GlaxoSmithKline
<https://www.gsk.com/en-gb/careers/>
- Research Scientist

- Bayer --- <https://career.bayer.us/en>
- Novartis Pharmaceuticals Corp. ---
<https://www.novartis.com/careers>
- Merck & Co. <http://www.merck.com/careers/>
- Research Biologist – Toxicology Assessment
- Chemist
- GLP Biochemical Analyst
- Amgen <http://careers.amgen.com/en/>
- Roche Palo AltoS - <http://www.roche.com/careers.htm>
- Expert Strategic Planning
- Dow Chemical Corp ---
<http://www.dow.com/careers/>
- Senior Industrial Hygiene Specialist
- Pfizer Inc. --- <http://www.pfizer.com/careers/>
- Bristol Myers Squibb Company ---
http://www.bms.com/careers/job_opportunities/Pages/default.aspx
- Pharmaceutical Development Technician



--- ICF International (Jones and Stokes)

<http://www.icfi.com/careers>

- Environmental Regulatory Specialist
- Air Quality and/or Noise Consultant
- Ecologist
- GIS Analyst/Environmental Planner
- Restoration Specialist

- Environmental Resources Management

<http://www.erm.com/en/Careers/>

- Environmental Scientist

--- Raney Geotechnical Inc.

<http://www.raneygeotechnical.com/>

- Environmental Specialist

--- Weston Solutions

<https://www.westonsolutions.com/careers/>

- Project Consultant

- Pace Analytical

<https://www.pacelabs.com/about-us/careers.html>

--- Blankinship & Associates Environmental

Consulting Firm ---<http://www.h2osci.com/index.html>

- Laboratory Data Consultants

<http://lab-data.com/consulting.aspx>

- Geomatrix Inc. <http://geo-matrix.com/careers.htm>

- Max Engineering

<http://www.dmaxinc.com/jobs/>

- Staff Scientist

- SCA Environmental Inc.

<http://www.sca.com/en/Career/Job-opportunities/>

---Geologist/Environmental Scientist

--- EMG --- <http://www.emgcorp.com/careers/>

---Environmental Project Manager



Possible Areas of Research

Air Pollution Animal
Studies

Antioxidants

Biotechnology

Carcinogenesis

Chemical/Chemical Interactions

Chlorine---based Compounds

Comparative and Veterinary Dioxins

Drugs/Addictive Agents

Ecological Effects EMF

Exposure Endocrine

Disruptors Epidemiology

Food Additives

Food Safety

Free Radicals/Oxidative

Stress/Antioxidants General

Toxicology Heavy Metals

Immunotoxicity In Vitro Toxicology

Industrial Chemical Toxicology

Inhalation/Pulmonary

Kidney Toxicity Liver

Toxicity Mechanisms

Medical Devices

Metabolism

Molecular Toxicology

Mycotoxins

Natural Toxicants

Neurotoxicity Occupational Health

Pesticides Pharmaceuticals

Radiation (including
microwaves & ultrasound)

Regulator

y Affairs

Toxicolog

y

Reproductive/Developmental Toxicity

Risk

Assessm

ent

Safety

Evaluatio

n

Solvents

Validation of Alternative

Methods Water Pollution

The environmental toxicology major contains specializations which will prepare and guide students to pursue their desired future course of study in the following areas:

---Health

- Medicine (M.D.)
- Dentistry (D.D.S)
- Nursing (R.N., B.S.N, M.S.N)
- Pharmacology (Pharm.D)
- Public Health (M.P.H)
 - Epidemiology
 - Biostatistics
- Forensic Science

--- Law

- Environmental Policy
- Public Policy and Administration

--- Education

- Environmental Education

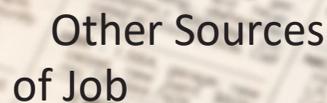
--- Master's and PhD's

- Environmental and Molecular Toxicology
- Environmental and Agricultural Chemistry
- Pharmacology and Toxicology
- Biochemistry
- Environmental Management
- Environmental Science
- Environmental and Occupational Health
- Industrial Hygiene
- Pollution Control
- Environmental Engineering
- Land Use and Environmental Planning
- Natural Resources Management
- Atmospheric Chemistry
- Hydrologic Science

--- GradSchools.com: Graduate School | Masters PhD Degrees --- <http://www.gradschools.com/>

--- Pharmacology and Toxicology Graduate Group, UC Davis --- <http://ptx.ucdavis.edu/>

--- Agricultural and Environmental Chemistry Graduate Group, UC Davis --- <http://agchem.ucdavis.edu/>

Other Sources
of Job

--- Society of Environmental Toxicology and Chemistry --- <https://www.setac.org/?page=careercenter>

--- Society of Toxicology Home Page --- <http://www.toxicology.org/>

--- Society of Toxicology Career Guide --- <https://jobbank.toxicology.org/>

--- Society of Toxicology Salary Survey --- <https://www.toxicology.org/ai/apt/seventhtrisurvey.asp>

--- Eco.Org --- Connects quality job candidates looking for green jobs with eco---employers --- <https://ecojobs.com/>

--- AEROTEK --- Staffing Agency that assists with job searches that fit your profile --- <http://www.aerotek.com/>

For more information, visit the Department of Toxicology website at <https://etox.ucdavis.edu/>
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