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.
Government

(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 - http://www.arb.ca.gov/personnel/jobs/examvac.htm
  - 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
  - Natural Resource Specialist
  - Chemist
  - Ecologist
  - Project Manager

Industry

CHEMICAL:
  - Hazard Communication Specialist
  - Staff Toxicologist
  - Environment and Safety Engineer

BIOTECH:
  - Quality Control (QC) Analyst

PHARMACEUTICAL:
  - Research Scientist
  - Research Biologist – Toxicology Assessment
  - Chemist
  - GLP Biochemical Analyst
  - 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
- GlobalTox
  http://www.globaltox.ca/main2.cfm?id=2769C4EE-C773-F41B-3492199877F4A5CE
  - Risk Assessment Specialist
- Environmental Resources Management
  http://www.erm.com/en/Careers
  - Environmental Scientist
- Raney Geotechnical Inc.
  http://raneygeotechnical.com/
  - Environmental Specialist
- Weston Solutions
  http://www.westonsolutions.com/careers/index.htm
  - Project Consultant
- Kiff Analytical Inc.
  http://www.kiffanalytical.com/contact/employment/
  - Laboratory Technician
- Blankinship & Associates Environmental Consulting Firm
  http://www.h2osci.com/index.html
  - Staff Toxicologist
- Laboratory Data Consultants
  http://www.lab-data.com/
  - Environmental Scientist
- Geomatrix Inc.
  http://www.geomatrix.com/careers.htm
  - Staff Toxicologist
- D Max Engineering
  http://www.dmaxinc.com/jobs/
  - Staff Scientist
- SCA Environmental Inc.
  http://www.sca-enviro.com/employment.html
  - Geologist/Environmental Scientist
- EMG
  http://www.emgcorp.com/careers/
  - Environmental Project Manager

Academia

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)
- Regulatory Affairs
- Toxicology
- Reproductive/Developmental Toxicity
- Risk Assessment
- Safety Evaluation
- 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/](http://www.gradschools.com/)

- Pharmacology and Toxicology Graduate Group, UC Davis - [http://ptx.ucdavis.edu/](http://ptx.ucdavis.edu/)

- Agricultural and Environmental Chemistry Graduate Group, UC Davis - [http://agchem.ucdavis.edu/](http://agchem.ucdavis.edu/)

Other Sources of Job Information

- Society of Environmental Toxicology and Chemistry - [https://www.setac.org/?page=careercenter](https://www.setac.org/?page=careercenter)

- Society of Toxicology Home Page - [http://www.toxicology.org/](http://www.toxicology.org/)

- Society of Toxicology Career Guide - [https://www.toxicology.org/AI/apt/careerguide.asp](https://www.toxicology.org/AI/apt/careerguide.asp)

- Society of Toxicology Salary Survey - [https://www.toxicology.org/ai/apt/seventhtrisurvey.asp](https://www.toxicology.org/ai/apt/seventhtrisurvey.asp)


- AEROTEK - Staffing Agency that assists with job searches that fit your profile - [http://www.aerotek.com/](http://www.aerotek.com/)

For more information, visit the Department of Toxicology website at [http://etox.ucdavis.edu](http://etox.ucdavis.edu) (Updated April 2015)