Environmental Toxicology
Career and Job Opportunities
Environmental Toxicology encompasses the study of the toxic properties of virtually all chemicals (both natural 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

- U.S Environmental Protection Agency - http://www.epa.gov/careers/
- Cal Environmental Protection Agency - http://www.calepa.ca.gov/Employment/
  - 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
- Amgen - http://www.amgen.com/
- Roche Palo Alto - http://www.rocheusa.com/portal/usa/careers
  - 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/career/data/index.html
  - Pharmaceutical Development Technician
Environmental Services and Consulting

- Air Toxics Limited -
  http://ch.tbe.taleo.net/CH09/ats/careers/jobSearch.jsp
  - Laboratory Analyst
  - Jones and Stokes - http://www.icfi.com/careers
    - 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
  - Laboratory Analyst
  - Blankinship & Associates Environmental Consulting
  - Laboratory Data Consultants -
    http://www.lab-data.com/
  - Environmental Scientist
  - Laboratory Scientist
  - Environmental Scientist
- Weston Solutions -
  http://www.westonsolutions.com/careers/index.htm
  - Project Consultant
- Kiff Analytical Inc. -
  http://www.kiffanyanalytical.com/contact/employment/
  - Laboratory Technician
- SCA Environmental Inc. -
  http://www.sca-enviro.com/employment.html
  - Geologist/Environmental Scientist
  - 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 Toxicansts
- Neurotoxicity Occupational Health Pesticides Pharmaceuticals
- Radiation (including microwaves & ultrasound) Regulatory Affairs Regulatory 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.

- [http://www.envtox.ucdavis.edu/ptx/](http://www.envtox.ucdavis.edu/ptx/) Pharmacology and Toxicology

**-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

**Other Sources of Job Information**

- Society of Environmental Toxicology and Chemistry - [http://www.setac.org/htdocs/](http://www.setac.org/htdocs/)
- Provides links to various environmental career search engines and other environmental job information.
  - [http://www.eco.org/site/c.dnJLKPNnFkG/b.942789/k.A6D0/Career_Links.htm](http://www.eco.org/site/c.dnJLKPNnFkG/b.942789/k.A6D0/Career_Links.htm)

Staffing Agency that assists with job searches that fit your profile –

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

For more information, visit the Department of Toxicology website at [www.envtox.ucdavis.edu](http://www.envtox.ucdavis.edu)