

## ***Enviro-Health Links - Education, Careers, and Outreach***

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### **Academic Program Directories**

Formal undergraduate and graduate programs leading to degrees

- Graduate Programs in Toxicology
  - [Academic and Post - Doctoral Programs and Web Sites](#)  
U.S. Society of Toxicology
  - [International Centre for Environmental Health and Toxicology \(ICEHT\)](#)  
Chulabhorn Research Institute, Thailand
- Programs in Environmental Health Sciences
  - [National Environmental Health Science and Protection Accreditation Council \(EHAC\)](#)
- Programs in Industrial Hygiene
  - [Accredited Industrial Hygiene Programs](#)  
Includes masters and bachelors level program
- Programs in Medical Toxicology
  - [Medical Toxicology Education Service](#)  
University of Virginia. Variety of resources for the professional and the public
  - [Programs accredited by the American Council of Graduate Medical Education](#)  
Click on "List of Programs by Specialty" and then select "Medical Toxicology"
  - [Training Programs for Medical Toxicology](#)  
A list, by state, compiled by the American College of Medical Toxicology

- [Toxikon Medical Toxicology Fellowship Program](#)  
A two - year full - time program sponsored by Chicago's Cook County Hospital, and leading to a board certification in medical toxicology.
- Programs in Occupational Medicine and Related Disciplines
  - [European Association of Schools of Occupational Medicine \(EASOM\)](#)

## Continuing Education and Tutorials

Consider also the [Distance Learning](#) section

- Continuing Education - Opportunities to enhance post - graduate knowledge and skills, in person or via the Web. Continuing education courses are also routinely offered at the annual meetings of Professional Societies.
  - [Advanced Principles in Toxicology](#)  
University of Guelph, Canada. Sponsored by the Canadian Network of Toxicology Centres. A graduate equivalent course designed for individuals in industry, government, or education who are working in areas related to toxicology.
  - [AAOHN \(American Association of Occupational Health Nurses\) Online Learning, online CE modules](#)  
Three modules on environmental health, environmental hazards, and susceptible populations.
  - [Basic Bioinformatics: From Sequence Analysis to Genome Analysis](#)  
Online CE course from the U.S. Society of Toxicology
  - [Case Studies in Environmental Medicine](#)  
Agency for Toxic Substances and Disease Registry. Designed to increase the primary care provider's knowledge of hazardous substances in the environment and to aid in the evaluation of potentially exposed patients. Continuing education units are available are several of these modules are now available online.
  - [EnviroDx](#)  
Multimedia, case - focused, computer - based learning program on environmental - related diseases
  - [Human Health & Global Environmental Change](#)  
A multi - disciplinary course designed to meet the demand for a more comprehensive understanding of the relationship between human health and the global environment for future physicians, policy - makers and public health experts.
  - [Modular Training Programme in Applied Toxicology](#)  
School of Biomedical and Life Sciences of the University of Surrey (U.K.). Provides scientists with the opportunity to acquire advanced training in toxicology.
  - [Online Certificate in Toxicology and Industrial Hygiene](#)  
Drexel University. This program was developed to help students at the post-baccalaureate level in industrial or governmental settings learn more about the basic principles of toxicology and industrial hygiene.

- [Postgraduate Education in Toxicology](#)  
Six Dutch universities cooperate to offer this annual program of 1 - 2 week duration specialized courses.
- [Professional Education Opportunities from the New Mexico Poison Center](#)  
Includes professional education programs, continuing medical education lectures, snakebite flow sheets, and antidote charts.
- [Risk Assessment Summer School \(RASS\)](#)  
IUTOX sponsored advanced training for selected post - graduate and post - doctoral toxicologists in risk assessment.
- Tutorials - Generally briefer and basic level Web-based instruction.
  - [ToxTutor](#)  
From the National Library of Medicine's Toxicology and Environmental Health Information Program - a multi - module program outlining the basic principles of toxicology. Ideal for undergraduates, as well as professionals and the public with a basic science background.
  - [Chemicals and Human Health](#)  
Part of the University of Arizona's Biology Project
  - [Environmental Health and Safety](#)  
These online training classes from the University of Nebraska at Lincoln include a module on chemical safety training.
  - [Supercourse: Epidemiology, the Internet and Global Health](#)  
University of Pittsburgh 2000+ lectures, with many of relevance - e.g. Toxicology and Epidemiology, Air Pollution and Health, Risk Assessment, etc.
  - [The Science of Chemical Safety: Essential Toxicology](#)  
Educational resource from the International Union of Pure and Applied Chemistry
  - [The Toxicology for Non - Toxicologists Self - Study Course](#)  
A course sponsored by Government Institutes

## Distance Learning

Opportunities for university credits and degrees remotely via distance education. Consider also [Continuing Education and Tutorials](#)

- [Center for Applied Environmental Public Health](#)  
Tulane University School of Public Health offers a MPH degree in Occupational Health and related fields via distance learning
- [Food Science and Toxicology](#)  
University of Idaho
- [Interdisciplinary Toxicology Distance Learning Program](#)  
University of Georgia
- [Introduction to Applied Toxicology](#)  
Health, Environment & Work, University of Manchester
- [Principles of Environmental Toxicology](#)  
University of Idaho

- [University of Ulster \(Ireland\) MSc/PgD \(Postgraduate Diploma\) in Environmental Toxicology and Pollution Monitoring](#)  
Offered via the Internet, this course provides advanced training in environmental toxicology, monitoring techniques and legislation and may be taken on a full - or part - time basis

## Education Outreach

Addressing the needs of the general public and underserved populations. Consider also [K-12 Education](#) section

- [Center for Research on Occupational and Environmental Toxicology](#)  
Oregon Health and Science University
- [EHS Center in Molecular and Cellular Toxicology with Human Applications](#)  
Wayne State University
- [Environmental Education Exchange](#)  
Non - profit organization providing products and services for the advancement of environmental literacy in the U.S. and Mexico
- [Environmental Health and Toxicology Community Outreach](#)  
Southwest Environmental Health Sciences Center
- [Environmental Health Science Education](#)  
National Institute of Environmental Health Sciences
- [NIEHS Undergraduate Summer Training in Environmental Toxicology](#)  
For highly qualified undergraduate students who are exploring graduate school and careers in environmental health sciences and are from underrepresented groups
- [Outreach and Education](#)  
Middle Tennessee Poison Center at Vanderbilt University Medical Center
- [Riesgos Ambientales y Efectos en la Salud \(Environmental hazards and health effects\)](#)  
CDC's National Center for Environmental Health
- [Toxicologia Ambiental: Evaluation de Riesgos y Restauracion Ambiental -](#)  
Spanish Language Program from the University of Arizona
- [Toxicology Education Foundation \(TEF\)](#)
- [Virtual Seminar](#)  
2004 Annual Conference of the U.S. Society of Toxicology, a potpourri of video presentations in toxicology for public and technical audiences.

## K-12 Education

Consider also [Education Outreach](#) section

- [Chemicals, the Environment, and You](#)  
Office of Science Education, National Institutes of Health and the National Institute of Environmental Health Sciences
- [Environmental Education on the Internet: Student Programs](#)  
North American Association for Environmental Education

- [EcoHealth](#)  
Johns Hopkins Bloomberg School of Public Health
- [Educational Outreach: K - 12 Teachers & Students](#)  
SUNY - College of Environmental Science and Forestry
- [EH - STEP \(Environmental Health Sciences Training and Education Program\)](#)  
[Environmental Health and Toxicology Community Outreach](#)  
Southwest Environmental Health Sciences Center
- [Environmental Health Science Education](#)  
National Institute of Environmental Health Sciences
- [Office of Environmental Education K - 12 Students and Teachers: Workshops for Middle and High School Teacher](#)  
U.S. Environmental Protection Agency
- [Life Sciences Learning Center Middle/High School teachers and students](#)  
University of Rochester School of Medicine and Dentistry
- [My Environment, My Health, My Choices](#)  
Environmental Health Sciences Center / University of Rochester School of Medicine and Dentistry
- [Project SEED](#)  
Program developed by the American Chemical Society to encourage economically disadvantaged high school students to pursue careers in the chemical sciences
- [Project Greenskate](#)  
University of Washington's Department of Environmental Health
- [Tox Town](#)  
Interactive guide to commonly encountered toxic substances
- [The Toxicology Study Guide](#)  
Basic principles in toxicology from Alberta Environmental Protection and the Canadian Network of Toxicology Centres.
- [ToxMystery](#)  
An interactive site for kids 6-10 years old on potential environmental health hazards found in homes
- [TOXRap](#)  
Using a detective theme, students investigate environmental hazards and their effects on human health.
- [Toxicology in K-12 Education](#)  
U.S. Society of Toxicology

## Miscellaneous Specialized Resources

A potpourri of additional resources relevant to toxicology and environmental health.

- [ACS Education](#)  
American Chemical Society. Offers a variety of short courses, video courses, and Internet courses for all levels.
- [Center for Health and the Global Environment Ecological Risk Assessment for Contaminated Sites in New Zealand](#)  
Landcare Research, New Zealand

- *Core Curriculum for Occupational and Environmental Health Nursing*  
American Association of Occupational Health Nurses, Inc. ; edited by Mary K. Salazar.  
3rd ed. Philadelphia, Pa.: W.B. Saunders, c2006.
- [Education and Training](#)  
Agency for Toxic Substances and Disease Registry
- [Educational Materials and Short Courses](#)  
Canadian Network of Toxicology Centers
- [Environmental Education Foundation](#)  
Provides educational seminars, publications and advanced technology (including software) to both the public and private sectors
- [Environmental Health Science Education](#)  
From the National Institute of Environmental Health Sciences. Branches into information geared to students, teachers, and scientists
- [Environmental medicine: integrating a missing element into medical education](#)  
Andrew M. Pope and David P. Rall, editors. Washington, D.C.: National Academy Press, 1995.
- [EnviRN](#)  
A virtual resource for environmental health and nursing University of Maryland
- [Index of Educational Resources: Occupational and Environmental Medicine and Health](#)
- [Nursing, health & the environment: strengthening the relationship to improve the public's health](#)  
Andrew M. Pope, Meta A. Snyder, and Lillian H. Mood, editors ; Committee on Enhancing Environmental Health Content in Nursing Practice, Division of Health Promotion and Disease Prevention, Institute of Medicine. Washington, D.C.: National Academy Press, 1995.
- [Toxicology Teaching Project](#)  
Indiana University of Pennsylvania Promotes teaching of toxicology at the undergraduate level and includes a list of undergraduate degree programs.
- [Training and Education](#)  
Chemical Industry Institute of Toxicology (CIIT), Centers for Health Research. Offers postdoctoral, predoctoral, undergraduate, and visiting scientist programs, as well as teacher training and Project SEED for disadvantaged high school students.

## General Science Resources

Noteworthy sites relevant to broad areas of science or science as a whole.

- [BioSciEdNet \(BEN\)](#)  
A collaborative composed of professional societies and coalitions for biology education, providing searchable and seamless access to the digital library collections of its Partners.
- [National Science Digital Library](#)  
Digital library of exemplary resource collections and services, organized in support of science education at all levels
- [Office of Science Education](#)  
Science education activities at the National Institutes of Health, developing and

sponsoring science education projects. These programs serve elementary, secondary, and college students and teachers and the public.

- [Supercourse](#)  
Over 2000 lectures, with a focus on epidemiology, public health, and global health
- [Teaching Science](#)  
International Council of Scientific Unions, linking education decision makers and scientists to projects and resources to support quality science education
- [World Wide Learn](#)  
An extensive directory of online courses and programs

## Accreditation Boards

- [American Board of Applied Toxicology](#)
- [American Board of Emergency Medicine](#)  
Subspecialty certification in medical toxicology
- [American Board of Forensic Toxicology](#)
- [American Board of Health Physics](#)
- [American Board of Industrial Hygiene](#)
- [American Board of Pediatrics](#)  
Subspecialty certification in medical toxicology
- [American Board of Preventive Medicine](#)  
Subspecialty certification in medical toxicology
- [American Board of Toxicology](#)
- [American Board of Veterinary Toxicology](#)

## Career Resources

- [Careers in Environmental Health Science](#)  
Eastern Kentucky University Media Resources and Tox Town, National Library of Medicine
- [Careers in Occupational and Environmental Medicine](#)  
American Council of Occupational and Environmental Medicine
- [Career Resources](#)  
British Society of Toxicology
- [Professional Opportunities](#)  
U.S. Society of Environmental Toxicology and Chemistry
- [Resource Guide to Careers in Toxicology](#)  
U.S. Society of Toxicology

## Professional Societies

- [Air and Waste Management Association](#)
- [American Academy of Clinical Toxicology](#)
- [American Association of Poison Control Centers](#)
- [American College of Medical Toxicology](#)
- [American College of Toxicology](#)

- [American College of Occupational and Environmental Medicine](#)
- [American Conference of Government Industrial Hygienists](#)
- [American Industrial Hygiene Association](#)
- [Environmental Mutagen Society](#)
- [European Association of Poison Centres and Clinical Toxicologists](#)
- [Health Physics Society](#)
- [International Society for the Study of Xenobiotics](#)
- [National Environmental Health Association](#)
- [North American Association for Environmental Education](#)
- [Society of Environmental Toxicology and Chemistry](#)
- [Society of Forensic Toxicologists](#)
- [Society for Risk Analysis](#)
- [Society of Toxicology Pathologists](#)
- [Society of Toxicology](#)
- [Teratology Society](#)
- [Water Environment Federation](#)

## **International Resources**

**Note** - Although the above list has a distinct U.S. focus, many other resources are available throughout the world. Consider the following organizations for learning about additional educational activities and opportunities in, or geared to, other countries.

- [Federation of European Toxicologists & European Societies of Toxicology \(EUROTOX\)](#)  
Educational and training programs offering courses in English
- [Intergovernmental Forum on Chemical Safety \(IFCS\)](#)  
Includes a list of IFCS National Focal Points
- [International Programme on Chemical Safety \(IPCS\)](#)  
Offers a variety of training and guidance documents online
- [International Society of Exposure Science \(ISES\)](#)
- [International Training and Research Program in Environmental and Occupational Health \(ITRPEOH\)](#)  
Sponsored by the U.S. National Institutes of Health (NIH) Fogarty Center and other U.S. federal agencies; geared to training scientists in developing countries and emerging democracies
- [International Union of Toxicology \(IUTOX\)](#)  
Includes a list of member societies and information on its sponsorship of continuing education courses throughout the world

## **Disclaimer**

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