Environmental Health Sciences

A leader in the field, Columbia University’s Department of Environmental Health Sciences (EHS) is dedicated to combining laboratory science, field research, and community-based efforts to understand the impact of environmental exposures on human health.

Our faculty provides students with unique, interdisciplinary training through coursework, hands-on research, and practicum experience.

Why Environmental Health Sciences?

You are interested in understanding:

- The impact of climate change on human health and disease transmission
- The basis of the asthma epidemic
- The impact of maternal exposure to air pollution and other toxicants on child development
- How metal exposure, such as lead and arsenic, impact the nervous, cardiovascular, and pulmonary systems
- How science can shape environmental policy and lead to sustainable development
- The causes and consequences of racial and economic disparities on health

DEGREE PROGRAMS

Master of Public Health (MPH)
- 2-year program
- Five Certificate offerings:
  - Climate and Health
  - Environmental Health Policy
  - Molecular Epidemiology
  - Toxicology
  - Global Health

Master of Science (MS)
- 12-month Toxicology program
- 18-month Radiological Sciences program

Doctor of Philosophy (PhD)
- Four areas of focus:
  - Exposure Science and Environmental Epidemiology
  - Environmental Epigenetics and Molecular Mechanisms
  - Environmental Prevention and Mitigation
  - Climate and Health

Doctor of Public Health (DrPH)
Why Environmental Health Sciences at Columbia?

- Small class sizes focused on individualized instruction and attention
- World-renowned faculty with collaborative research on local, regional, and global levels
- Nurturing learning environment through rigorous coursework and hands-on research
- Wide range of research opportunities from cellular and molecular mechanisms to population public health and policy
- Access to extensive resources within the University, Medical Center, and New York City

A Selection of Our Research

- Community-based research and outreach programs in underserved NYC neighborhoods
- Groundwater arsenic research in New England, Native American tribal communities, Bangladesh, and Vietnam using molecular epidemiology
- Air pollution research in NYC, Europe, and China
- Research on epigenetic changes caused by exposure to endocrine disruptors
- Climate change and mosquito research in NYC and West Africa through computer modeling and real-time data collection
- Cook stove and alternative energy technology research in Ghana, Cameroon, and India

2016–2017 ACADEMIC YEAR

| 18 | Full-time faculty members |
| 54 | Master’s students |
| 15 | Doctoral students |

OUR GRADUATES
Assume leadership positions in government, healthcare, universities, nonprofits, and the private sector, including:

- EPA
- CDC
- NYC Department of Health and Mental Hygiene
- CareFirst
- BlueCross BlueShield
- Ambient Group
- NRDC
- CDM Smith
- Citibank

GET IN TOUCH
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