How to Apply
The Certificate Program in Environmental Health Sciences (EHS) is a full-time training program offered by the Office of Biomedical Graduate Studies (BGS). Students who apply for any BGS PhD program are eligible to apply to the program.

Matriculants receive a fully-funded fellowship— including tuition, fees, health insurance, and a competitive stipend— regardless of financial need. The training and research base for the EHS Program is the Center of Excellence in Environmental Toxicology (CEET) which is supported by the National Institute of Environmental Health Sciences (NIEHS).

Curriculum
Students take specialized courses in addition to their graduate group requirements and receive a PhD from their graduate group and a Certificate in Environmental Health Sciences. Course work covers molecular toxicology, epidemiology, biostatistics, genome science and occupational and environmental health. All students must complete three laboratory rotations one of which must be a community or population-based research project. Students are expected to attend the CEET seminar series and the annual CEET symposium. Completion of this sequence is sufficient to graduate with the Certificate. Thereafter, students conduct their thesis research (typically three years) to graduate with the PhD degree.

Training Grant Support
Graduate students who complete one year of the Certificate Program and elect to conduct thesis research in the area of environmental health sciences are eligible for additional support from an institutional training grant (T32): "Translational Research Training Program in Environmental Health Sciences" (T32ES019051).

For more information
Center of Excellence in Environmental Toxicology
Perelman School of Medicine at the University of Pennsylvania
1316 Biomedical Research Building (BRB) II/III
421 Curie Boulevard
Philadelphia, PA 19104-6160
(215) 746-3030
ceet@mail.med.upenn.edu
http://ceet.upenn.edu

Office of Biomedical Graduate Studies
Perelman School of Medicine at the University of Pennsylvania
160 Biomedical Research Building (BRB) II/III
421 Curie Boulevard
Philadelphia, PA 19104-6064
(215) 898-1030
www.med.upenn.edu/bgs/

http://ceet.upenn.edu
To provide training in the link……

Environmental Exposures
Molecular/Cellular Effect

Prevention
Intervention
Treatment
Community Outreach

Diseases with Environmental Etiology

………to prepare for careers in EHS
Exposures and Human Health

Fossil Fuel Combustion & Airway Disease

Cigarette Smoke & Lung Cancer & E-Cigarettes

Endocrine Disrupting Chemicals

Lead Poisoning & Cognition

Pesticides & Parkinson’s Disease
Certificate Program in Environmental Health Sciences

- Experimental Genome Science (Fall 1st Yr)
- Cell Biology & Biochemistry (Fall 1st Yr)-BGS req
- Molecular Toxicology (Spring 1st Yr)
- Biological Data Analysis (Spring 1st Yr)-BGS req
- Introductory Epidemiology (Summer 1st Yr)
- Occupational and Environmental Medicine (Fall 2nd Yr)
- CEET-Seminar Series and Symposium
- Research in Progress Monthly Meeting
- Teen Research & Education in Environmental Science (TREES)
- Course Requirements for DABT
- T32 Training Grant in EHS (T32-ES019851)
- Three Rotations one EHS –Community Based Environmental Health (45 faculty across BGS)
Interdisciplinary Superfund Research Training Program

- Cross Training in Environmental Sciences (SAS) and Environmental Health Sciences (PSOM)
- Focus on remediation of hazardous waste and adverse health effects (EPA, ATSDR, NTP)
- Introduction to Superfund Sites-PHRM 627 (Fall 1st Yr)
- Research Methods Course-ENVS 533 (Spring 1st Yr)
- Summer Rotation-Field Work or Capstone Project In Ambler Community
- Participation in SRP Research in Progress
- NIEHS SRP Webinar Series
- Externships at US EPA and ATSDR

("Asbestos, Fate, Exposure, Remediation and Adverse Health Effects"-P42-ES023720)
“natural insecticides from Marigolds” - Mazllum Islami

“biodegradable fuels” - Maya Lindsay

“testing biodegradable plastics” - Shaneka Dixon

“skin protection from UV light using sunscreens” - Aisha Maity

“carbon capture technologies” - Arianne Da Hei Ku

“arsenic remediation” - Diane Da Hei Ku
How to apply?

Certificate Program in Environmental Health Sciences

- webster@upenn.edu

Interdisciplinary Superfund Research Training Program

- asbestos@upenn.edu
- cshwed@exchange.upenn.edu

http://ceet.upenn.edu/home