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 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” (T32-ES019851).

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
Environmental Health Sciences Training

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

CENTER OF EXCELLENCE IN ENVIRONMENTAL TOXICOLOGY
Thematic Areas in CEET

Exposure Biology Informatics Core (EBIC)
Translational Bioanalytical Core (TBC)
Administrative Core (AC)

Exposure
Adverse Outcome
Translation

Communities
Policy Makers
Health Care Professionals (CEC)

Patients
Human Subjects (IHSFC)

Thematic Areas
Air Pollution and Lung Health
Environmental Exposures & Cancer
Windows-of-Susceptibility
Environmental Neuroscience

Cores
Exposure Biology Informatics Core (EBIC)
Translational Bioanalytical Core (TBC)
Administrative Core (AC)
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 Health (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)
“biodegradable fuels” - Maya Lindsay

“testing biodegradable plastics” - Shaneka Dixon

“natural insecticides from Marigolds” - Mazillum Islami

“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

Academic Coordinator

- webster@upenn.edu

Training Grant Director

- penning@upenn.edu