

Johns Hopkins Environmental and Hopkins Health Engineering

Ensuring a **Prosperous and Sustainable** World





We are working with NASA, using satellite data to measure greenhouse gases and estimate emissions as a means to gauge the effectiveness of local and global climate policies.

RESEARCH AREAS


- **Community, Sustainability, Resiliency, and Preparedness**
- **Energy Management and Alternative Technologies**
- **Environmental Chemistry**
- **Environmental Microbiology**
- **Environmental Resource Quality (Air, Water, Sediments, Soil)**
- **Geomorphology, Geochemistry, and Hydrology**
- **Hazardous and Solid Waste Engineering**
- **Landscape Hydrology**

ASSOCIATED RESEARCH CENTERS AND INSTITUTES

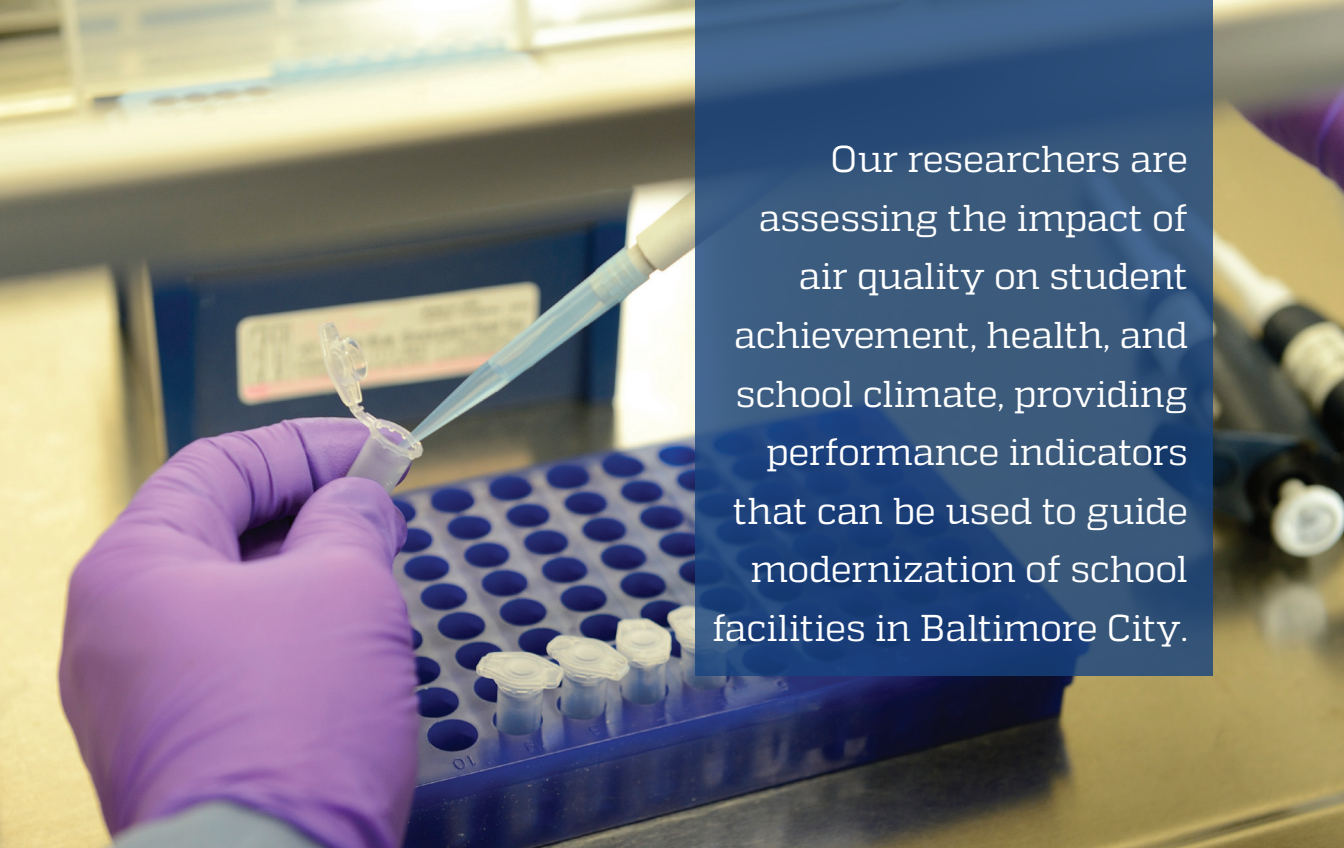
- **Center for Environmental and Applied Fluid Mechanics**
- **Center for a Livable Future**
- **Center for Health Security**
- **Center for Systems Science and Engineering**
- **Center for Public Health Preparedness**
- **Education and Research Center for Occupational Safety and Health**
- **Program on Global Sustainability & Health**
- **The Exposome Collaborative**
- **Mathematical Institute for Data Science**

Ensuring a Prosperous and Sustainable World

Faculty and students in the cross-divisional **Department of Environmental Health and Engineering** (EHE) translate fundamental science into innovative, multidisciplinary solutions to critical and complex challenges at the interface of public health and engineering. The department's unique structure, spanning Johns Hopkins Whiting School of Engineering and renowned Bloomberg School of Public Health, expresses both divisions' deep commitment to cross-disciplinary research and education. With faculty whose expertise ranges from basic physical, chemical, and biological sciences to population studies, clean energy, and environmental policy, the department's dual affiliation fosters original and impactful research and enables novel academic offerings.



Unique EHE programs include certificate and master's programs in Occupational and Environmental Hygiene.



Our researchers are assessing the impact of air quality on student achievement, health, and school climate, providing performance indicators that can be used to guide modernization of school facilities in Baltimore City.

Our Work

Every day, we encounter new environmental challenges that threaten our survival and that call for novel solutions. EHE research focuses on translating knowledge into sustainable, evidence-based environmental programs, technologies, and policies at the local, national, and global levels. Research in the department falls into four key areas: environmental contamination, transport, remediation, and treatment; exposure science, environmental epidemiology, and worker health; chemical and biological mechanisms of environmentally related diseases; and systems of sustainability and emerging threats, environmental policy, and risk sciences. This diversity of areas offers rich opportunities for collaboration on original technical and policy solutions to protect human health and ensure the sustainability of the planet.

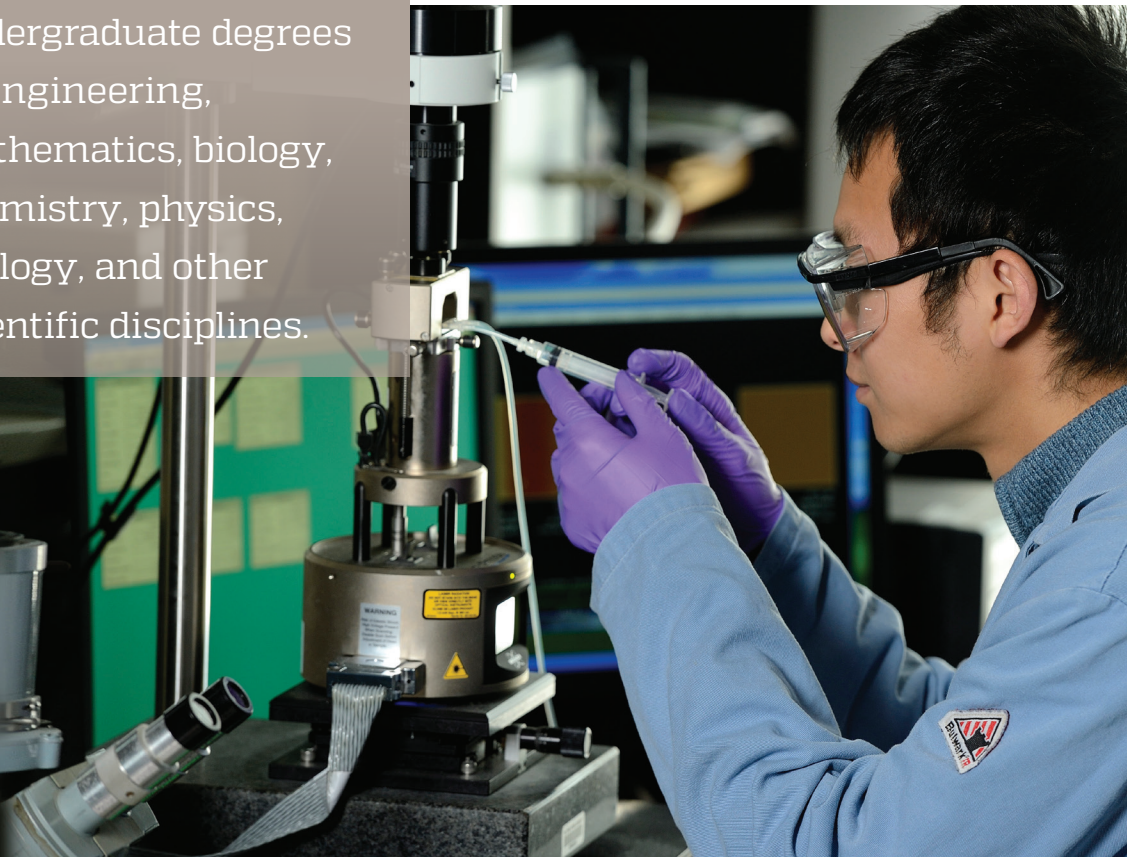
OUR DATA SCIENCE ANALYTICS TRACK...

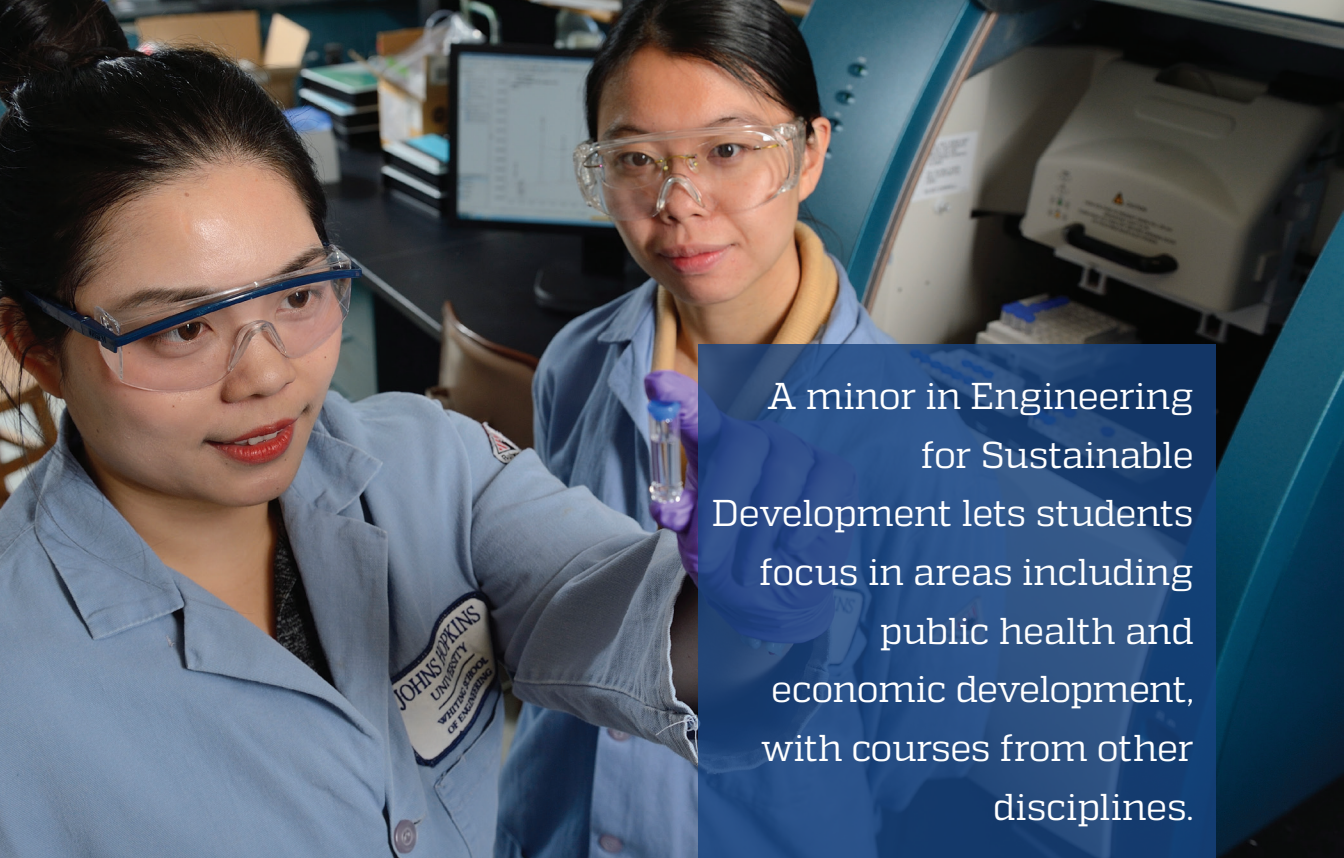
emphasizes innovative computational, statistical, and “big data” tools with applications to environmental problems in air pollution, energy systems, hydrology, and climate change.

Preparing the Next Generation of Engineering Leaders

The EHE curriculum is flexible and innovative, serving students on campus and around the globe, through on-site and online offerings. Coursework is complemented by rigorous training in research methods and field experiences, and in all of our programs, we focus on preparing the next generation of leaders who can apply critical thinking and technological expertise to make significant contributions to the health of the Earth and its inhabitants. EHE alumni pursue a wide range of careers, as well as graduate studies, in areas including environmental engineering and medicine. Our graduates also work in industry, academia, and the public sector and for NGOs.

The MS in Geography and Environmental Engineering is open to students with undergraduate degrees in engineering, mathematics, biology, chemistry, physics, geology, and other scientific disciplines.





A minor in Engineering for Sustainable Development lets students focus in areas including public health and economic development, with courses from other disciplines.

A Sampling of Recent Graduates' Employers

Spiniello Companies
U.S. Environmental Protection Agency
D.C. Water and Sewer Authority
Geosyntec Consultants
Siemens Building Technologies
SolarCity
U.S. Department of Agriculture
BrightFields Inc.
Hazen and Sawyer
Booz Allen Hamilton
Accenture
Connecticut Agricultural Experiment Station
Tetra Tech
UMCES/USEPA Chesapeake Bay Program
Pure Technologies

A Sampling of Recent Graduate Programs Attended

Columbia University, Earth and Environmental Sciences
Boston University School of Medicine
University of Southern California, Industrial and Systems Engineering
Georgia Tech, Environmental Engineering
London Business School, Management Science and Operations
Tulane University, Environmental Health Sciences
University of Michigan, Urban Planning
Stanford University
University of California, Berkeley

Hopkins Engineering by the Numbers



9

Departments



22

Centers and Institutes



200+

faculty



7,000+

total students



full time
programs

15 bachelor's
16 master's
10 doctoral



22

part-time/
online master's
degrees



26

graduate certificates



\$117M

Federal Research Funding



40,000+

living alumni

ehe.jhu.edu



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