

NOW ACCEPTING APPLICATIONS

Merit-based scholarships are available for qualified students.

For program details and to submit your application, visit emap.georgetown.edu.

Deadlines for best consideration:

Priority January 15, 2019

U. S. applicants April 1, 2019

Foreign applicants March 1, 2019

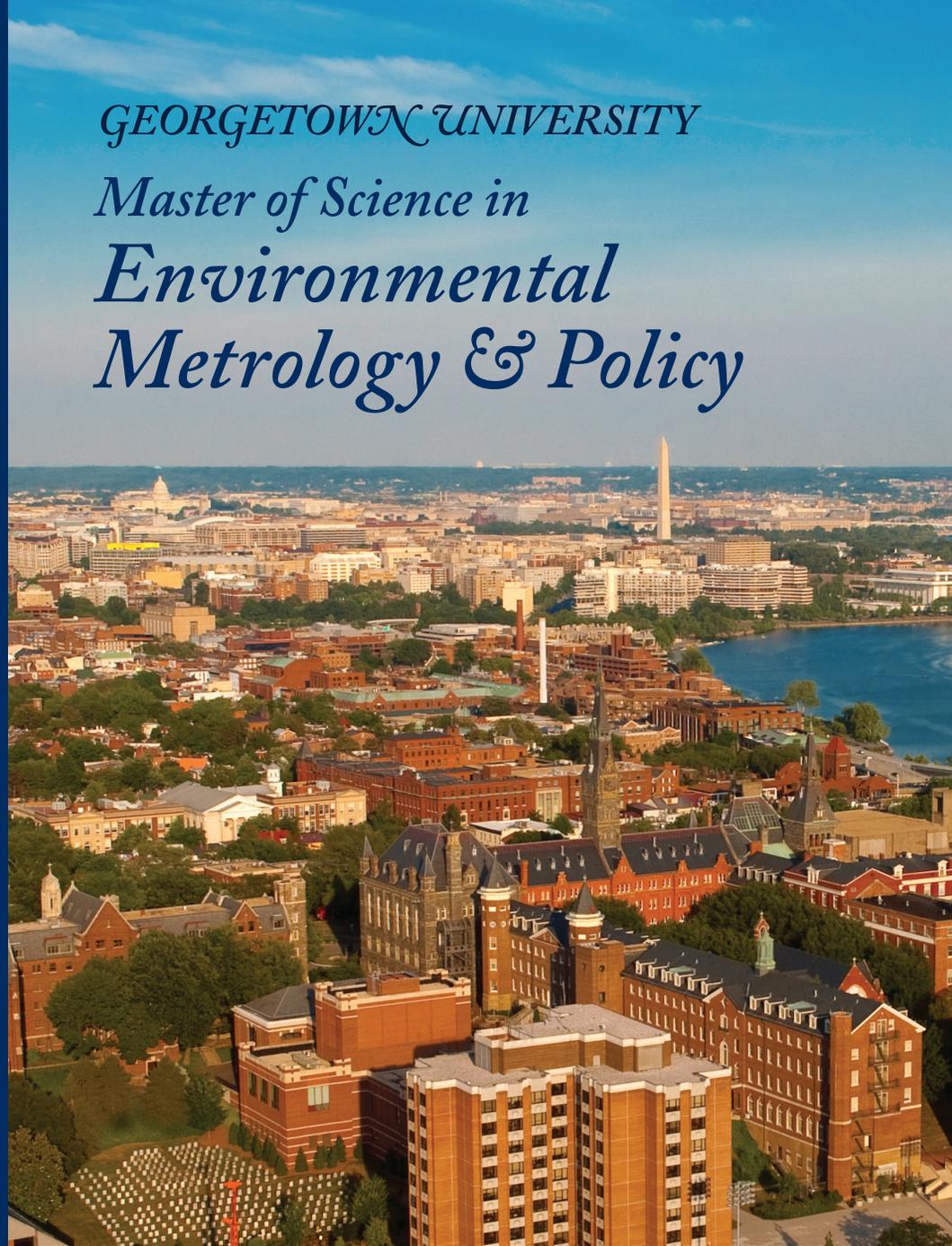
For the Betterment of the World

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GEORGETOWN UNIVERSITY

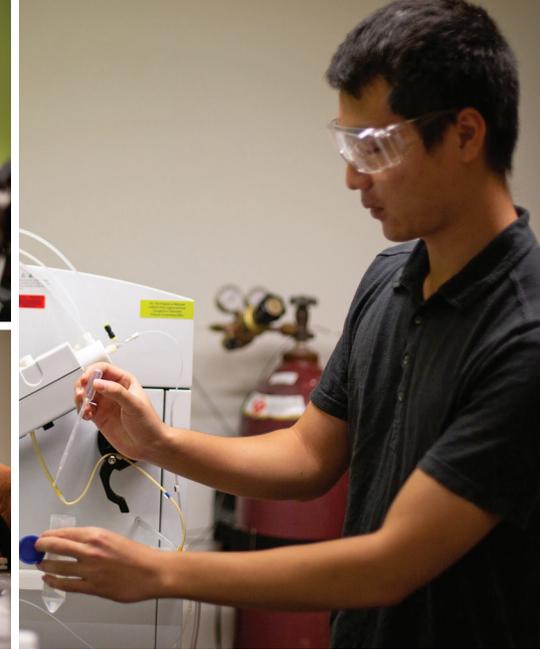
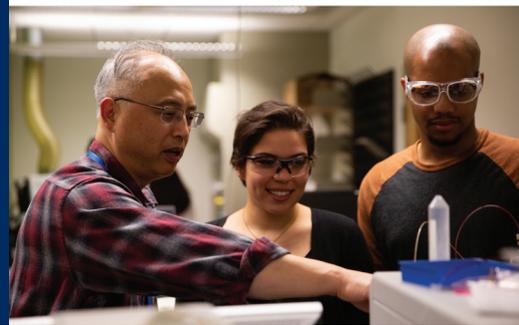
Master of Science in Environmental Metrology & Policy



emap.georgetown.edu

Master of Science in Environmental Metrology & Policy at Georgetown University

You can only prevent hazardous environmental exposures that you can measure. Making sound environmental decisions to address pollution challenges requires a sophisticated understanding of how to measure pollution in multiple media (metrology) and how to use such data to assess environmental risks to human beings and ecosystems by which to impart environmental policymaking.



The interdisciplinary Master of Science in Environmental Metrology & Policy at Georgetown University provides a unique combination of broad expertise and marketable skills to scientists and engineers interested in leading environmental research and policymaking at all levels of government, industry, and other organizations.

Students in the two-year program benefit from instructors from Georgetown, the National Institute of Standards and Technology (NIST) and the Environmental Protection Agency (EPA), which includes a 10-week program-funded summer internship at NIST and EPA.

Students completing the rigorous curriculum will learn how to use state-of-the-art instruments to identify and quantify pollutants in multiple environmental media.

They will also learn the science of risk assessment and how to combine epidemiologic, occupational, clinical, animal, in vivo, in vitro, and in silico data to estimate human and ecological responses to pollutant exposures. Students will become familiar with the laws that govern environmental protection in the United States and other countries, as well as when, how, and why these laws were enacted. Students will also gain an appreciation of the process by which environmental decisions are made and the efficacy of past decisions through an evaluation of real-world case studies.

PROGRAM FEATURES & CURRICULUM

In this dynamic interdisciplinary program, the first of its kind in the nation, students learn to combine and apply new scientific and technical skills in policymaking settings. Integrated metrology and policymaking core courses prepare students to pursue sequential research-oriented courses and enrich their working knowledge further through electives in economics, government, ethics, and environmental data science. With access to state-of-the-art metrology instruments, students learn by working with leading scientists and policy makers. Leveraging all the Washington, D.C. region has to offer, Georgetown's integrated research-oriented professional training combines science and policymaking to uniquely prepare students to make a difference in growing interdisciplinary fields. An after-work course schedule offers students the possibility of pursuing the program while working full- or part-time.

Students in the program gain:

- Unique interactions with experts from National Institute of Standards and Technology (NIST) and Environmental Protection Agency (EPA)
- Funded research opportunities at NIST, EPA or other agencies
- Experience with state-of-the-art metrology instruments via Agilent Technologies, Inc.
- Opportunities to leverage a vast network of scientists and policymakers in the nation's capital
- Opportunities to meet leading experts in the fields through discussions and seminars
- A master of science in two years (40 credits)
- Mentorship and advising for capstone with thesis