

> ENROLLMENT QUALIFICATIONS

Application to the program is open to individuals who have completed an undergraduate engineering degree from an ABET-accredited program or equivalent non-US program. Enrolled students must complete at least one course in biological science and one course in probability/statistics prior to program completion. Coursework in these areas is best completed *before* enrollment, as doing so during the program will likely extend its length.

> FINANCIAL AID

Financial aid may be available through competitive, limited campus-wide UNC Graduate School awards.

> ABOUT THE DEPARTMENT OF ENVIRONMENTAL SCIENCES AND ENGINEERING

The Department of Environmental Sciences and Engineering at UNC's Gillings School of Global Public Health is internationally recognized for outstanding work addressing engineering and scientific challenges in air, water, and waste management, as well as in understanding and controlling human exposures to environmental agents. Its location within a school of public health offers unique opportunities to focus on the relevance of environmental engineering to human health in today's complex global ecosystem.

PROGRAM DIRECTOR

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FOR MORE INFORMATION, VISIT <http://sph.unc.edu/envr/1yrmse/>



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DEPARTMENT OF
**ENVIRONMENTAL SCIENCES
AND ENGINEERING**



ONE-YEAR MASTER OF SCIENCE IN ENVIRONMENTAL ENGINEERING

ENGINEERING SOLUTIONS FOR PUBLIC HEALTH

EARN A MASTER OF SCIENCE IN ENVIRONMENTAL ENGINEERING IN ONE YEAR

» Created by the **DEPARTMENT OF ENVIRONMENTAL SCIENCES AND ENGINEERING** at The University of North Carolina's Gillings School of Global Public Health, this innovative, one year Master of Science in Environmental Engineering (MSEE) program provides students with the vital skills and training in air quality and sustainable water resources

needed to solve today's environmental engineering and public health problems.

As part of the nation's number one *public* school of public health, we bring together the broad-based, interdisciplinary vision, skills, and perspective

that environmental engineering professionals require in today's complex world.

Our one-year MSEE program goes beyond fundamental principles in air quality and sustainable water resources to include emerging developments locally and globally in environmental engineering.

PROGRAM INCLUDES

- › Experiential learning through a real-time simulation of humanitarian and environmental emergencies.
- › Courses taught by world-renowned faculty in top ranked *public* school of public health.

PROGRAM STRUCTURE

The **ENVIRONMENTAL ENGINEERING PROGRAM** is based on two semesters (27 credit-hours) of coursework and a summer project-based course (3 credit-hours) led by a practicing professional. The program begins in the fall semester.

PUBLIC HEALTH AND ENGINEERING COURSEWORK

Coursework includes an introduction to public health, eight technical electives, and diverse seminars on environmental engineering and public health topics.

ENGINEERING PUBLIC HEALTH SOLUTIONS

Exposure to technological innovations, predictive modeling for effective environmental decision-making, global WASH (water, sanitation, and hygiene) methods, and processes affecting air and water quality.

EXPERIENTIAL LEARNING PROJECT

Culminating experience during summer session that features a interdisciplinary team through real-time simulation of environmental and humanitarian emergencies such as a train derailment, major chemical spill, disease outbreak, or population displacement.