

# ENVIRONMENTAL SCIENCE AND TECHNOLOGY

## Environmental Science and Technology Program

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<http://enst.umd.edu>

The Department of Environmental Science and Technology (ENST) is the place for ecological discovery and natural solutions! Our primary mission is to educate students on the fundamentals of environmental science while instilling a deep fascination and intellectual capacity to work in their chosen area of specialization, whether it is Natural Resources Management, Ecological Design, Soil and Watershed Science, or Ecosystem Health. When our students graduate, we want them to be top-notch environmental stewards with a broad framework from which they can advance professionally, personally, and socially.

ENST faculty with expertise in soil science, ecology, and ecological engineering set the stage for unique, relevant, and attractive courses and an academic program that not only trains students to understand environmental systems and issues but also gives them multidisciplinary quantitative design and analytical tools to address complex environmental problems.

## PROGRAMS

### Major

- Environmental Science and Technology Major (<https://academiccatalog.umd.edu/undergraduate/colleges-schools/agriculture-natural-resources/environmental-science-technology/environmental-science-technology-major/>)

### Minor

- Chesapeake Bay: Watersheds and Water Resources Minor (ENST) (<https://academiccatalog.umd.edu/undergraduate/colleges-schools/agriculture-natural-resources/environmental-science-technology/chesapeake-bay-watersheds-water-resources-minor/>)
- Soil Science Minor (<https://academiccatalog.umd.edu/undergraduate/colleges-schools/agriculture-natural-resources/environmental-science-technology/soil-science-minor/>)

## ADVISING

The ENST Department has mandatory advising for each of its concentrations. Students are required to meet with their advisor at least once per semester. Please refer to the ENST web page at <http://enst.umd.edu> for more information.

## OPPORTUNITIES

### Internships

The ENST curricula consist of a broad set of background courses in environmental science, electives in applications, and upper-level field courses that synthesize the major. Students gain hands-on learning experience during their **required** internship.

## Student Societies and Professional Organizations

RESTORE, the ENST student-run club, provides members with the opportunity to participate in educational, service, recreational, and social activities. They gain information that better prepares them for the work force, while making a positive contribution to the field of Environmental Science and Technology as well as the community.

## Certifications & Professional Societies

An important aspect of professional development is earning and maintaining certification in your field. The ENST department strives to provide courses and degrees that prepare you for training programs and certification exams and aid in satisfying other requirements for professional certifications. Some relevant certifications are listed below and details can be found at <http://enst.umd.edu>. Membership in professional societies is an excellent method to develop a professional network and stay up to date on developments in your field.

- OSHA HAZWOPER (<https://www.osha.gov/html/faq-hazwoper.html>)
- LEED Certifications (<http://usgbc.org/credentials/>)
- Soils Field and Laboratory Technician (<https://www.wacel.org/technician-certification-program/technician-certification-program-overview/>)
- Certified Professional Soil Scientist (<https://www.soils.org/certifications/become-certified/>)
- Certified Professional Agronomist (<https://agronomy.org/certifications/>)
- Certified Crop Advisor (<https://www.certifiedcropadviser.org/>)
- Certified Ecological Designer (<https://ser.org/page/CERPApplications/>)
- Professional Wetland Scientist (<http://www.wetlandcert.org/overview.html>)
- Ecologist ([http://www.esa.org/esa/?page\\_id=181](http://www.esa.org/esa/?page_id=181))
- Certified Wildlife Biologist (<http://wildlife.org/>)
- Certified Fisheries Professional (<http://fisheries.org/>)
- Certified Forester ([https://www.eforester.org/Main/Certification\\_Education/Certified\\_Forester/Requirements/Main/Certification/Requirements.aspx](https://www.eforester.org/Main/Certification_Education/Certified_Forester/Requirements/Main/Certification/Requirements.aspx))
- Certified Natural Resources Manager ([https://www.eforester.org/Main/Certification\\_Education/Certified\\_Forester/Requirements/Main/Certification/Requirements.aspx](https://www.eforester.org/Main/Certification_Education/Certified_Forester/Requirements/Main/Certification/Requirements.aspx))
- Erosion and Sediment Control Certification (<https://roads.maryland.gov/mdotsha/pages/Index.aspx?PageId=56>)

## Scholarships and Financial Assistance

ENST offers three scholarship opportunities. Juniors enrolled in the Ecological Technology Design concentration are eligible to apply for the ASABE Washington, DC – Maryland Section Scholarships and the Robert L. and Frances C. Green Scholarship. Members of MANNRS are eligible to apply to the Edward R. Landa and Judith A. Johnson Scholarship. Please see the ENST web page at <http://enst.umd.edu> for additional information.

Additionally, ENST students are encouraged to apply for internships available to them through the College of Agriculture & Natural Resources. More details can be found here: <http://agnr.umd.edu/students/scholarships/>.

The Office of Student Financial Aid (OSFA) administers all types of federal, state and institutional financial assistance programs and, in cooperation with other university offices, participates in the awarding of scholarships to deserving students. For information, visit: <http://financialaid.umd.edu>.