ENVIRONMENTAL SCIENCE
AND TECHNOLOGY

College of Agriculture and Natural Resources
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www.enst.umd.edu (http://www.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://
academcatalog.umd.edu/undergraduate/colleges-schools/
agriculture-natural-resources/environmental-science-technology/
environmental-science-technology-major/)

Minor
• Soil Science Minor (https://academcatalog.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 contact Shannon Pederson at 301-405-1193 or
shannonp@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 www.enst.umd.edu (http://
www.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.

• LEED Certifications (http://www.usgbc.org/credentials (http://
www.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 (https://www.soils.org/certifications/
become-certified/))
• Certified Professional Agronomist (https://agronomy.org/
certifications (https://agronomy.org/certifications/))
• Certified Crop Advisor (https://www.certifiedcropadvisor.org/)
• Certified Ecological Designer (http://www.ecoeng.org/certification/
certification.html)
• Professional Wetland Scientist (http://www.wetlandcert.org/
overview.html)
• Ecologist (http://www.esa.org/esas?page_id=181 (http://
www.esa.org/esas?page_id=181/))
• Certified Wildlife Biologist (http://www.wildlife.org/)
• Certified Fisheries Professional (http://fisheries.org/)
• Certified Forester (https://www.efoister.org/Main/
Certification_Education/Certified_Forester/Requirements/Main/
Certification/Requirements.aspx (https://www.efoister.org/Main/
Certification_Education/Certified_Forester/Requirements/Main/
Certification/Requirements.aspx?hkey=7eae8378-e92b-43be-ab9-93e713cb38cc/))
• Certified Natural Resources Manager (https://www.efoister.org/
Main/Certification_Education/Certified_Forester/Requirements/Main/
Certification/Requirements.aspx (https://www.efoister.org/Main/
Certification_Education/Certified_Forester/Requirements/Main/
Certification/Requirements.aspx?hkey=7eae8378-e92b-43be-ab9-93e713cb38cc/))
• Certified Natural Resources Manager (https://www.efoister.org/
Main/Certification_Education/Certified_Forester/Requirements/Main/
Certification/Requirements.aspx (https://www.efoister.org/Main/
Certification_Education/Certified_Forester/Requirements/Main/
Certification/Requirements.aspx?hkey=7eae8378-e92b-43be-ab9-93e713cb38cc/))
• Erosion and Sediment Control Certification (http://
www.sha.maryland.gov/Index.aspx?Pageld=56/))

Scholarships and Financial Assistance
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:

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: https://agnr.umd.edu/students/scholarships (https://agnr.umd.edu/students/scholarships/).