The Center for Leadership in Global Sustainability (CLiGS) is housed within Virginia Tech’s College of Natural Resources and Environment and headquartered in Arlington, Virginia, near Washington, D.C.
Welcome, Change Makers!

The pandemic has exposed environmental security and sustainable development issues worldwide, as well as has revealed a dire lack of people who are equipped to tackle these issues. Professionals who have the knowledge, skills, and abilities to influence and address a broad range of sustainability challenges are likely to continue to be in high demand.

The Master of Natural Resources degree is designed for professionals aiming to advance their careers or shift to leadership roles in the environmental and sustainability fields or functions. Where do you see yourself in the future? How will you contribute to a more equitable and sustainable world? Will you be ready to lead from where you are?

The future will be here soon, and we all need to be ready to make it as good as it can be. We look forward to welcoming you to Virginia Tech!

Sincerely,

Michael J. Mortimer, JD, PhD
Associate Dean, Washington, D.C. Area Director

About the Center for Leadership in Global Sustainability

The Center for Leadership in Global Sustainability (CLiGS) equips current and aspiring environmental and sustainability professionals with the credentials, competencies, connections, and confidence to become more effective leaders, now and in the future.

Our mission is to **educate, inspire, and empower** sustainability professionals to create a better future for people and our planet.

**SECTOR**

<table>
<thead>
<tr>
<th></th>
<th>Government 1/3</th>
<th>Business 1/3</th>
<th>Civil society 1/3</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOGRAPHY</td>
<td>30% Virginia</td>
<td>50% Outside of DC/VA/MD region</td>
<td>70% Out-of-state and international</td>
</tr>
</tbody>
</table>

(Where our students work)

700+ GRADUATES

(All MNR degree programs to date)
Two Ways to Earn Your Master’s Degree

The Master of Natural Resources is delivered in two flexible formats:

- **Online** (fully online course delivery)
- **Executive** (hybrid: online plus in-person; cohort-based and accelerated)
- Both are designed for current and aspiring environmental and sustainability professionals looking to take their career to the next level.

### MASTER OF NATURAL RESOURCES

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>MNR (ONLINE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUALIFICATIONS</td>
<td>Undergraduate degree</td>
</tr>
<tr>
<td>SCHEDULE &amp; TIMELINE</td>
<td>Flexible (12–36 months)</td>
</tr>
<tr>
<td>PROGRAM BEGINS</td>
<td>Semester of choice (3 times/year)</td>
</tr>
<tr>
<td>LOCATION</td>
<td>Online + international trip</td>
</tr>
<tr>
<td>GLOBAL STUDY</td>
<td>A 10-day international trip to one or more* of these destinations: Argentina, Finland, Iceland, Ireland, Italy, South Africa, and Spain</td>
</tr>
<tr>
<td>ENGLISH PROFICIENCY</td>
<td>Yes</td>
</tr>
<tr>
<td>COST</td>
<td>$32,000 (+ books and international airfare)**</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>EXECUTIVE MNR (HYBRID)</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUALIFICATIONS</td>
<td>Undergraduate degree</td>
</tr>
<tr>
<td>SCHEDULE &amp; TIMELINE</td>
<td>12 months (3 semesters); includes 11 weekend meetings (5 on campus + 6 virtually)</td>
</tr>
<tr>
<td>PROGRAM BEGINS</td>
<td>January</td>
</tr>
<tr>
<td>LOCATION</td>
<td>Washington, D.C. metro area + 6 virtual meetings + international trip</td>
</tr>
<tr>
<td>GLOBAL STUDY</td>
<td>One 10-day international trip. Locations are selected by faculty each year. Previous destinations have included China, Egypt, India, Mexico, Morocco, South Africa, and Turkey</td>
</tr>
<tr>
<td>ENGLISH PROFICIENCY</td>
<td>Yes</td>
</tr>
<tr>
<td>COST</td>
<td>~$39,500*** (total cost)</td>
</tr>
</tbody>
</table>

*MNR (Online) students interested in more than one Global Study may pursue additional opportunities through the Advanced Global Study option, to be discussed with a graduate advisor upon admission.

**Exact cost will vary based on the cost of international airfare, books, and per-semester library and technology fees. Prices are subject to change.

***Early Admission scholarships are available for the XMNR program. Cost includes books, supplies, and meals during on-campus study weekends, and Global Study trip except for international airfare.

Please check our [website](#) for current pricing.
Master of Natural Resources (Online)

The MNR is a 30-credit, virtual, and flexible degree program that prepares students for careers in environmental sustainability. The program combines online coursework and participation in a 10-day, face-to-face Global Study (an international trip) that takes the place of the typical professional graduate degree capstone project. Students interested in more than one Global Study may pursue additional opportunities through the Advanced Global Study option, to be discussed with a graduate advisor upon admission.

Whether you’re about to graduate with your Bachelor’s degree, are a recent grad, or have been working for a decade or longer, this flexible interdisciplinary program instills the conceptual and critical thinking skills necessary for lifelong learning and career development. MNR graduates are prepared to succeed on a truly global stage as natural resource, environmental, and sustainability professionals.

COURSES

- **Core courses:** Global Issues in Environmental Sustainability, Leadership Communication for Sustainability Professionals, Constructing Sustainability, Strategies for Sustainability, Sustainability Systems
- **Elective courses in these focus areas:** Biodiversity and Ecosystems, Cities and Urban Systems, Climate Change, Environmental Policy, Sustainable Business, Water and Marine Systems

Important Application Information

- Completed undergraduate degree
- Completed VT Application for Admission
- No GRE required
- No additional cost for out-of-state or international students
- English proficiency assessment is required for international students per Graduate School requirements

LEARN MORE ABOUT THE MASTER OF NATURAL RESOURCES ON OUR SITE

**COURSES**

- Core courses: Global Issues in Environmental Sustainability, Leadership Communication for Sustainability Professionals, Constructing Sustainability, Strategies for Sustainability, Sustainability Systems
- Elective courses in these focus areas: Biodiversity and Ecosystems, Cities and Urban Systems, Climate Change, Environmental Policy, Sustainable Business, Water and Marine Systems

SEE THE FULL LIST OF ELECTIVE COURSES ON OUR SITE.

**AVERAGE AGE:** ~35

**AGE RANGE:** ~20–55

**AVERAGE ENROLLMENT:** ~15–20 STUDENTS PER COURSE

85% OF INSTRUCTORS ARE ACTIVE PRACTITIONERS IN THEIR FIELDS
Executive Master of Natural Resources (Hybrid)

The Executive Master of Natural Resources (XMNR) is an accelerated (1 year) graduate degree program that combines the best of online and in-person education in an innovative hybrid and cohort-based curriculum focused on systems learning, leadership, and change. The XMNR is a transformative learning and leadership development experience that educates, inspires, and empowers professionals to address current and emerging challenges in sustainable development, environmental justice, climate resilience, and related topics.

XMNR students learn to make sense of complex environmental and sustainability systems, apply advanced leadership strategies and practices, engage diverse stakeholders in real-world case projects, and improve their overall professional performance to advance their careers. XMNR students typically have demanding full-time jobs, which is why our curriculum is designed to help them improve their performance at work, advance their careers, and have greater impact in the world. Executive-style graduate programs are for anyone who is interested in experiential and peer-to-peer learning focusing on professional and leadership development as related to sustainability systems.

The program is taught as a hybrid of in-person/virtual meetings and online individual and small-group work. Students gather in person 5 times a year for three-day experiential learning weekends, 6 times virtually for two-day meetings, and one 10-day Global Study experience. Meeting with your cohort virtually or in the Washington, D.C. metro area, you’ll strengthen your network with access to Virginia Tech’s faculty and world-renowned sustainability experts, as well as peers from across disciplinary and sectoral boundaries. You’ll also network with global partners during your Global Study, and apply lessons learned to real-world sustainability projects.

Important Application Information

- Cohorts start each January and have a limited number of spaces
- Admissions are processed on a rolling basis
- No GRE required
- No additional cost for out-of-state or international students
- Admission decisions are based on both academic and professional experience
- English proficiency assessment is required for international students per Graduate School requirements

SUBJECTS OF STUDY

- Climate Change and Resilience
- Energy Transitions and Alternatives
- Food and Agriculture
- Water and Marine Systems
- Environmental Justice
- International Sustainable Development
- Sustainable Business and Circular Economy
- Global Resource Flows and Supply Chains
- Urbanization and Sustainable Cities
- Biodiversity and Ecosystems
- Leadership and Innovation
- Communications and Collaboration
- Individual Development, Independent Study, and Career Advising*

*Students have the opportunity to focus their studies, specialize, and develop expertise on topics of interest and relevant to their career goals through an Individual Development Process that includes independent study projects and career coaching options.

~30 STUDENTS PER COHORT

AVERAGE AGE: ~40
AGE RANGE: ~25–60

STUDENTS ENGAGE WITH > 50 FACULTY AND GUEST FACULTY

LEARN MORE ABOUT THE EXECUTIVE MASTER OF NATURAL RESOURCES ON OUR SITE
Global Study

Every MNR student participates in a ten-day Global Study experience—a required part of our degree in both programs—to engage with real-world global sustainability challenges.

**MNR (Online)** students can choose from several destinations. Those who are interested in emphasizing international experiential learning during their time in the program have an opportunity, if desired, to visit multiple destinations as part of their graduate degree coursework.

For **Executive Master of Natural Resources (XMNR)** students, the Global Study destination for each cohort is chosen by the faculty. Previous XMNR Global Study locations have included China, Egypt, India, Mexico, Morocco, South Africa, and Turkey.

Given the dynamic nature of travel at the moment, we are following Virginia Tech’s travel and study abroad policies to inform our decisions on destinations and timing. If traveling for Global Study is not possible—including for students’ personal reasons—we have alternatives for fulfilling this requirement to enable students to graduate according to their plan of study. Please consult one of our Academic Advisors for details.

**INTERCULTURAL COMPETENCE**

Understanding similarities and differences between cultures, and how those factors underlie different perspectives, is a key to success for global sustainability professionals. All students undergo a standardized cultural competence test, the Intercultural Development Inventory (IDI), administered by trained faculty members. Students in the XMNR program take the 50-question assessment upon entry into the program, and students in the MNR (Online) Program take it as part of the Global Issues in Environmental Sustainability core course.
CITIES IN NATURE: BUENOS AIRES AND MENDOZA, ARGENTINA

What does it mean for a city to be a part of its ecoregion? And how do sustainable cities and sustainable ecoregions fit together? In this Global Study experience, students will explore two iconic Argentine cities, Buenos Aires and Mendoza, as complex urban areas within their ecoregional contexts, through key themes of sustainable urban form, environmental justice, habitat restoration and protection, grassland ecosystems and resources, desert oasis cities, water conflicts, wine economies, and global commerce. By the end of this trip, students will absorb the vibrant culture of two important Argentine cities; make the connection between urban society, transportation, urban form, and equity; visit an informal urban settlement; explore the ecologically rich Paraná Delta; study the significance of the Pampas as a major and historical natural resource; investigate the Matanza Riachuelo restoration in comparison to other small watersheds around the world; engage in the discourse regarding benefits of certified B Corporations; connect the specific terroir of Mendoza to the global wine trade; and reflect on lessons that apply to urbanization back home and around the world.

NORDIC TRANSFORMATIONS: FINLAND

The Baltic Sea in northern Europe is the largest brackish water system in the world. It’s also a challenging-to-manage water body, bordering 11 different—and often uncooperative—nations. And now the sea is being threatened by eutrophication, fisheries depletion, pollution, non-native species, construction projects, and the fastest sea level rise in Europe. We will explore the complex management and the cross-national cooperation efforts in the region, including those of national and subnational governments, NGOs, cities, and corporations. We will examine the web of interdependencies among regional environmental issues and the strategies that Finnish sustainability professionals have developed to address them systematically.
BOILING RIVERS AND RECEDING GLACIERS: ICELAND

Unlike many of our other Global Study sites, Iceland is a sparsely populated island nation, one facing environmental challenges that differ from most other countries. Students will examine Iceland’s unique energy transitions, present and future, and their potential impact on global climate change; entrepreneurial approaches to building a circular economy; ecological and social transformations associated with building a sustainable fishery; land and species conservation, including issues of forestry, invasive species, and soil loss; and climate change, carbon capture, glacial retreat, and their meanings for Iceland and the world.

IRELAND

Ireland has a rich agricultural history and is a net exporter of meat, dairy, beverages, and crops to 180 countries, which makes the country an important contributor to global food security. Students will explore Ireland’s role in the global agricultural supply chain and meet with key stakeholders, from national leaders to local farmers, to learn how large companies, artisan producers, manufacturers, retail, and food service are working together to create a sustainable agricultural industry.

ITALY

Coming soon!
AFRICAN TRANSFORMATIONS: SOUTH AFRICA

The wealthiest of African nations and the financial gateway to the continent, post-apartheid South Africa is a fascinating place to consider the complex relationships between sustainable management of natural resources and biodiversity, social justice, poverty, development, and governance. Beginning in Cape Town and the Cape winelands, continuing eastwards to the coastal town of Knysna along the spectacular Garden Route, and then on to Gqeberha (formerly Port Elizabeth) and the Kariega Game Reserve, students will explore South Africa’s complex cultures and history and the critical role these play in sustainability challenges and opportunities. By the end of this journey, students will be able to make connections between social justice, culture, and the sustainable management of natural resources; recognize diverse transformations necessary to achieve sustainable global communities; learn about sustainable tourism and urbanization as complex propositions; appreciate the significance of UNESCO World Heritage designation; understand the Cape Floral Kingdom as a valuable ecosystem; make connections between these global lessons and one’s own sustainability agenda; experience a safari and understand the complex links between sustainable tourism, biodiversity conservation, and sustainable development; and understand how global warming forces transformations onto peoples and places.

CLIFFS AND COASTS: CATALONIA AND VALENCIA, SPAIN

Spain has a long history of managing water, a resource vital to its centuries-old agricultural culture, now at risk due to climate change. Students will begin exploring this subject as well as learn about sustainable farming, tour biodiversity preserves and a nature park, and engage with a community group struggling to balance development pressures threatening the area’s rich cultural heritage in Olot, a small Catalan village nestled amidst dormant volcanoes. In Valencia, students will meet with municipal leaders of another small village on the Mediterranean Sea who recently wrestled back control of its water system from a private contractor. An innovative NGO will share their experience promoting local foods (consumim de proximitat), while getting healthy food into school lunches, preserving an ancient Arab irrigation system, supporting farmers working in the urban fringe to keep land open rather than developed, and connecting residents to their food supply. The trip will conclude in Barcelona, the ancient, thriving city, which is home to exemplary innovations in sustainable urban development. Throughout the trip we will be accompanied by local experts and cultural guides and will be able to enjoy world-class cuisine, shopping, history, and art.

LEARN MORE ABOUT GLOBAL STUDY ON OUR SITE
Alums

Our graduates live and work all over the world, but they remain closely connected, both in person and online. Here's a small sample of the types of jobs and organizations where you can find our alums.

“What was most valuable for me was the confidence I gained in discussing important and complex sustainability issues. I now have the credentials to speak up and make an impact.”
ARSLAN AHMAD

“Throughout my experience, I learned how to step back and see things at a broad level—only then can problems be identified and broken down to achieve a long-term goal.”
MIKE BECKNER

“This degree has helped me to build an international work portfolio and is also helpful as I assist in urban renewal programs in my hometown of Detroit. Challenges of sustainability are truly relevant wherever we find ourselves.”
MAGGIE STRIZ CALNIN

“They're really teaching you the skills you need to be a leader in your field and to understand decisions that other leaders are making.”
VIRGINIA FOSTER

“I was looking to move my career from a mid-level government employee to an executive position. After graduating, a year and a half later I became the executive director of a non-profit.”
KATE FRITZ

WHO ARE OUR ALUMS?

- Executive Director, Alliance for the Chesapeake Bay
- Energy and Sustainability Liaison at District of Columbia Public Schools (DCPS)
- Sustainability Consultant, Dominion Energy
- International Trade Policy Leader at USDA Foreign Agricultural Service (FAS)
- Senior Client Engagement Lead at the Global Carbon Capture and Sequestration Institute
- Environmental and Social Specialist at MIGA-World Bank Group
- Conservation Strategy Specialist, Restoring America’s Forests at The Nature Conservancy
- Country Director at the Institute for Sustainable Communities
- Sustainability and Environmental Specialist, U.S. Geological Survey
- Senior Product Manager at National Geographic Society
- Utility Programs Manager at project: HOMES
- Deputy Director of Parks and Recreation for the City of Greenville
- National Program Coordinator, U.S. Environmental Protection Agency
- Natural Resource Specialist, U.S. Bureau of Land Management
- USAID Grants Auditor, Macfadden
- Communications Strategist and Science Writer, Duke University
- President, Sustainable Designs LLC
- Site Manager, GE Renewables

FOR MORE STORIES, VISIT THE ALUMS SECTION ON OUR SITE
THE VALUE OF A MASTER'S DEGREE

~$100,000/year average salary of employees in the Environmental, Health, Safety, and Sustainability field*

~$5,000/year salary boost with graduate degree for employees with <15 years of work experience**

50% of mid-career sustainability professionals have advanced degrees**

*Source: 2020 EHS&S Salary Survey
**Source: National Association of Environmental Management (NAEM)

Student Resources

Whether it’s student advising, career coaching and resume help, financial aid, or veterans’ benefits, all MNR students can count on the support of Virginia Tech’s faculty and staff.

GREEN CAREERS

As the sustainability field matures, employers look for skills beyond technical expertise. The issues and challenges are complex, global, and interconnected. People working on solving these challenges need to have the ability and the training to think strategically and systemically, and work collaboratively across many disciplines.

CAREER COACHING AND RESUME GUIDANCE

All our graduate students have access to personal career coaching. Even if you have a solid grasp of your values and skills, career coaching can help you advance in your career or pivot successfully to a new one.

FINANCIAL AID

Students may qualify for financial aid, usually in the form of student loans. Early Admissions Scholarships are available for Executive MNR applicants. Learn more on our website.

Virginia Tech has been awarded designations as “Military Friendly, Silver Medal” by militaryfriendly.com and “Best for Vets” by MilitaryTimes.com. Students who are veterans, active military, or military spouses comprise nearly 20 percent of each Executive MNR cohort, and almost 15 percent of each graduating class in the MNR.