Department of Forestry

BY THE NUMBERS

69 undergrad students

38 graduate students

95% student job placement

15 faculty members

2,587 alumni

ABOUT

- Teaching students to find their role in sustaining forests and the ecosystem services, including conservation of biodiversity, wood, and clean water, as well as global climate stabilization.
- Creating tomorrow's leaders through multi-disciplinary coursework, field studies, cutting-edge technology and mentorship from respected faculty members in one of the longest-standing forestry programs in the U.S.
- Discovering and transferring fundamental and applied knowledge of forested and associated systems from an integrated ecological, social and economic perspective.
- Sharing knowledge and skills to advance conservation, restoration and sustainable use of ecosystem services from local to global scales.

PROGRAMS

Undergraduate: Bachelor of science in forestry educates professionals to significantly contribute to the resolution of forest-centered environmental and resource problems. Accredited by the Society of American Foresters.

Graduate: Master's and Ph.D. degrees in forestry. Choice between research-intensive track or professional track. Designed for individuals pursuing a range of careers in academia, management, public agencies, non-government organizations, or the private sector. Graduate certificates in spatial ecology or in forest carbon science policy and management are also offered.

GIVING OPPORTUNITIES

There are various ways to support our faculty and students, including:

- Undergraduate enrichment/ experiential learning funds for study abroad, internships, research, field trips and other transformative experiences.
- Graduate fellowships and teaching assistant funding.
- Field-based learning and research centers.

CONTACTS

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canr.msu.edu/for

Department of Forestry

WAYS TO GET INVOLVED

LEARN: A desire for lifelong enrichment marks a true Spartan. A wide variety of programs are available in person and online for continues learning.

GET TOGETHER: On campus and throughout the world there are many opportunities for Spartans to connect with one another.

GIVE BACK: Spartans make a difference. Join our ranks of Spartans who are enhancing the MSU experience for students, faculty and staff.

TRADITIONS: There are many ways for alumni and fans to show their support of the university.

FIND OUT MORE: canr.msu.edu/alumniengagement

STAY CONNECTED

UPDATE your information: alumni.msu.edu/update.

EMAIL: Sign-up to receive the CANR Alumni newsletter: canr.msu.edu/alumninewsletter.

MAGAZINE: Read *In the Field,* featuring stories from the college. Join the mailing list by making a gift at the Spartan Loyal level or above.

WEB: canr.msu.edu/alumni

FOLLOW CANR on social:

RESEARCH

- Developing high-value products from lignin, a waste byproduct of paper manufacturing. Lignin-based polyurethane, phenolic and epoxy resins have application in coatings, adhesives and foams. This research is fundamental to moving toward a more sustainable and biologically based economy.
- Partnering with the USDA Forest Service, Forest Inventory and Analysis Program in the largest tree biomass study in U.S. history. Estimating tree biomass in forests is crucial to inventory wood supply, as well as ecosystem services such as carbon storage. This national project is developing a comprehensive set of equations that will improve estimation of tree volume, biomass and carbon stocks from easily measured variables such as tree diameter.
- Using lidar technology and sophisticated spatial statistics to reconstruct important forest characteristics in remote areas of interior Alaska. Mounted on aircraft, lidar (light detection and ranging) uses the reflectance of laser signals to reconstruct forests in 3-D. These virtual forests, together with on-the-ground tree inventory from the U.S. Forest Service, enable estimation of structure, biomass and carbon in remote areas.

OUTREACH

Providing forestry programs to help landowners become effective stewards, managing their forests for today while preserving benefits for future generations.

Topics of forestry outreach projects include: forest management; ecology; entomology; sociology and economics; wood energy/biomass; habitat management/wildlife ecology; social forestry; Christmas trees; natural resources leadership development; wildfire management; forest stewardship; planning and zoning; and maple syrup and other non-timber forest products.