



BUILDING KNOWLEDGE FOR NORTHERN FOREST COMMUNITIES



University of
New Hampshire



State University of New York College of
Environmental Science and Forestry



THE UNIVERSITY OF
MAINE



The University of Vermont

The Northeastern States Research Cooperative (NSRC) is a competitive grant program supporting cross-disciplinary, collaborative research in the Northern Forest—a 30-million-acre working landscape that is home to more than two million residents and stretches from eastern Maine through New Hampshire and Vermont and into northern New York. NSRC addresses the importance of the Northern Forest to society and the need to work collaboratively with the people who live within its boundaries, work with its resources, use its products, visit it, and care about it.

NSRC connects
USFS and non-USFS
researchers with stakeholders
to benefit the environment and
economy of the Northern Forest
region.

NSRC engagement, collaboration,
and coordination extend the
impacts of USFS priorities.

www.nsrcforest.org

Congressional Authorization:
*Forest and Rangeland Renewable
Resources Research Act (Public
Law 105-185).*

Federal Funding Source:
USDA Forest Service

FY 2020 Funding: \$1.95 million

FY 2021 Funding: \$2.47 million

FY 2022 Authorized: \$5 million
(awaiting final funding from USFS)

Research Competition 2021-22

In May 2022, NSRC announced 13 awards totaling nearly \$2 million of federal funding and close to \$1.1 million of matching funds for research that focus on areas of concern identified by forest stakeholders in the Northern Forest region.

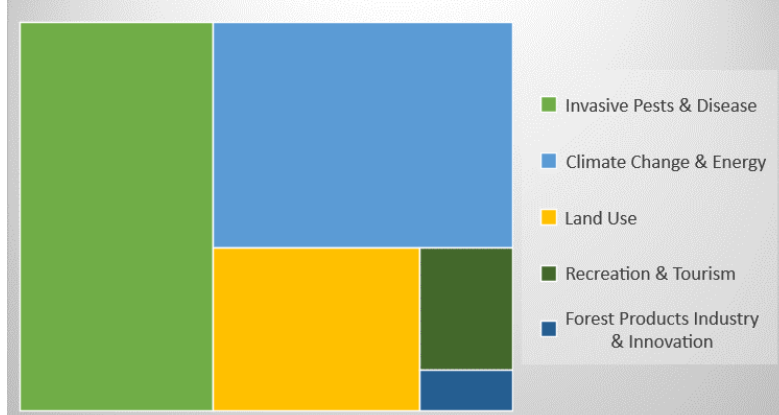
The projects funded in this round cover a broad range of concerns related to biodiversity and connectivity, climate change and energy, invasive pests and diseases, and recreation and tourism.

The request for proposal drew a strong response from researchers representing 18 different institutions across the region: a total of 33 project proposals requesting \$5.2 million in funding were submitted to the NSRC.

Focus Areas

- 🔗 State of the Forest
- 🔗 Measuring & Quantifying Impacts
- 🔗 Developing Tools for Response
- 🔗 Rural Community & Economic Development

Priority Issues Addressed in Awarded Projects



NSRC Projects Awarded 2020-2022

- * Forest Characteristics and Impacts on Mammalian Diversity. PI Daniel Bogan, Siena College
- * Quantifying Forest Using Geospatial and Remotely Sensed Data. PI Melissa Clark, The Nature Conservancy
- * Social impacts from Recreational Mountain Biking. PI Kimberly Coleman, SUNY Plattsburgh
- * Implementing Forest Adaptation Options for Northern Forest Ecosystems. PI Anthony D'Amato, University of Vermont
- * Invasive Pest Effects on Tree Demographics Across the Northeastern US. PI Jeff Garnas, University of New Hampshire
- * Role of Mycorrhizal Fungi in New England Forest Management. PI Caitlin Hicks Pries, Dartmouth College
- * Jumping Worm Invasion and Impact in the Northern Forest. PI Timothy McCay, Colgate University
- * Effects of Timber Harvesting on Wetland Ecology. PI Christina Murphy, USGS Maine Cooperative Fish & Wildlife Unit
- * Eastern White Pine Health Monitoring through Remote Sensing. PI Parinaz Rahimzadeh-Bajgiran, University of Maine
- * Importance of Fire as a Tool in Oak Range Expansion. PI Matthew Vadeboncoeur, University of New Hampshire
- * Impacts of Extreme Climate Events on Tree Regeneration. PI Jay Wason, University of Maine
- * Monitoring Culturally Important Wildlife on Penobscot Nation Lands [IFKF]. PI Benjamin Simpson, Penobscot Indian Nation
- * Protecting the Brown Ash [IFKF]. PI John Daigle, University of Maine
- * Supporting Abenaki Stewardship of Atlantic White Cedar Swamp Ecosystem [IFKF]. PI Heidi Asbjornsen, University of New Hampshire
- * Migration and Community Implications During COVID. PI Jessica A. Carson, University of New Hampshire
- * Evaluating the Efficacy of Audubon's Bird-friendly Maple PI Steven D. Faccio, Vermont Center for Ecostudies
- * Influence of Increased Use on Visitor Experience in the Adirondack Park. PI Elizabeth S. Vidon, SUNY College of Environmental Science and Forestry
- * Integrating Genetic and Ecological Data to Measure and Map Wildlife Connectivity across the Northeast. PI James D. Murdoch, University of Vermont
- * Adaptation of Northern Forest Trees Species to a Warmer, Drier Future. PI Heidi Asbjornsen, University of New Hampshire
- * New Silvicultural Guide for Northern Conifers in the Northeast. PI Laura Kenefic, U.S. Forest Service Northern Research Station, University of Maine
- * Pheromone-based Monitoring and Control Program for Browntail Moth. PI Angela Mech, University of Maine
- * Drone-based LiDAR to Predict Umbrella Species. PI Alexej Sirén, University of New Hampshire
- * Genetic Impacts of Forest Management Strategies on Sugar Maple. PI Danilo D. Fernando, SUNY College of Environmental Science and Forestry
- * High-Resolution Carbon Accounting for the Regional Forest Sector. PI Daniel J Hayes, University of Maine
- * Updated Inventory and Maps of Vermont Town Forests. PI Cecilia M. Danks, University of Vermont
- * Haudenosaunee Forest Principles [IFKF]. PI Robin Kimmerer, SUNY College of Environmental Science and Forestry
- * NEBI (Water): Connecting N'dakinna (Land) [IFKF], Bilowagizagad (Climate), and Alnobak (People). PI Adam Wymore, University of New Hampshire

NSRC Indigenous Forest Knowledge Fund
grants support education and training of Indigenous youth and their involvement in applied forest research to advance communications, outreach, and economic programs for Tribal Nations and Indigenous communities.

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The Northeastern States Research Cooperative (NSRC) is a partnership of the Northern Forest states of Maine, New Hampshire, New York, and Vermont, in coordination with and with funding provided by the USDA Forest Service, an equal opportunity provider.
www.nsrcforest.org