

Forest Ecology Data Analysis and Environmental Education Co-op
Maine Timber Research and Environmental Education (TREE) Foundation

Location: Hybrid, depending on candidate/organizational needs. In-person work will occur in Arrowsic, Maine, at Holt Research Forest.

Hours: Approximately 15-30 hours per week

Start/End Dates: Approximately 15-35 weeks starting in summer 2025

Supervisor: Paulina Murray, Research Manager; paulina@mainetree.org; 207-447-9438

Project Description:

This opportunity is designed for students interested in community science, data analysis, and environmental education. The student will contribute to a forestry-based curriculum, connecting students to Maine's forests through the Forest Ecology Research Network (FERN) and Certified Logging Professional (CLP) programs. The focus will be developing an education model integrating long-term ecological monitoring data from the Holt Research Forest (HRF) to analyze forest change over time. The co-op student will analyze and visualize HRF data to enhance FERN and school collaborations where access to long-term data collection is limited. Using ArcGIS Online, the student will create a story map and other resources to communicate their findings and demonstrate how long-term data can be used as a tool to describe forest change, offering a meaningful resource for educators and students alike.

Primary Tasks/Responsibilities:

- Analyze long-term ecological monitoring data - Work with historical datasets from the HRF to assess forest change over time.
- Data visualization & GIS mapping - Utilize ArcGIS Online to create maps and other visualizations, including a story map to communicate ecological trends and findings.
- Curriculum development support - Contribute to integrating HRF data into the FERN and CLP program curricula.
- Educational resource development - Help design materials that translate complex ecological data into accessible formats for educators and students.
- Collaboration and outreach: Work with Maine TREE staff and educators to ensure long-term ecological data is effectively integrated into school and community science programs.
- Technical writing and documentation - Document data analysis methods and findings for future use in education and outreach initiatives.