

**Opportunity Title:** USDA-FS Imaging and Molecular Biology of Drought Response in Trees

**Opportunity Reference Code:** USDA-FS-NRS-2024-0273

**Organization** U.S. Department of Agriculture (USDA)

**Reference Code** USDA-FS-NRS-2024-0273

**How to Apply** *To submit your application, scroll to the bottom of this opportunity and click **APPLY**.*

A complete application consists of:

- An application
- Transcript(s) – For this opportunity, an unofficial transcript or copy of the student academic records printed by the applicant or by academic advisors from internal institution systems may be submitted. Click [here](#) for detailed information about acceptable transcripts.
- A current resume/CV, including academic history, employment history, relevant experiences, and publication list
- Two educational or professional recommendations. At least one recommendation must be submitted in order for the mentor to view your application.

All documents must be in English or include an official English translation.

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**Application Deadline** 9/13/2024 3:00:00 PM Eastern Time Zone

**Description** *\*Applications will be reviewed on a rolling-basis.*

**USDA Forest Service Office/Lab and Location:** A fellowship opportunity is available with the US Department of Agriculture (USDA) Forest Service (FS) within the Forest Service Northern Research Station (NRS) located in Burlington, Vermont.

At the heart of the USDA Forest Service's mission is their purpose. Everything they do is intended to help sustain forests and grasslands for present and future generations. Why? Because their stewardship work supports nature in sustaining life. This is the purpose that drives the agency's mission and motivates their work across the agency. It's been there from the agency's very beginning, and it still drives them. To advance the mission and serve their purpose, the USDA Forest Service balances the short and long-term needs of people and nature by: working in collaboration with communities and our partners; providing access to resources and experiences that promote economic, ecological, and social vitality; connecting people to the land and one another; and delivering world-class science, technology and land management.


**Research Project:** The opportunity is in support of ongoing research using advanced imaging and molecular biology approaches to understand and address drought affects on forests.


**Learning Objectives:** This is a lab-based opportunity that provides training




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in plant tissue culture, histology and microscopy, and basic molecular biology.

**Mentor:** The mentor for this opportunity is Andrew Groover ([andrew.t.groover@usda.gov](mailto:andrew.t.groover@usda.gov)). If you have questions about the nature of the research, please contact the mentor.

**Anticipated Appointment Start Date: August 2024.** Start date is flexible and will depend on a variety of factors.

**Appointment Length:** The appointment will initially be for one year but may be extended upon recommendation of USDA Forest Service and is contingent on the availability of funds.

**Level of Participation:** The appointment is flexible and part time (approximately 16 hours a week of training and educational opportunities).

**Participant Stipend:** The participant will receive a monthly stipend commensurate with educational level and experience.

**Citizenship Requirements:** This opportunity is available to U.S. citizens, Lawful Permanent Residents (LPR), and foreign nationals. Non-U.S. citizen applicants should refer to the [Guidelines for Non-U.S. Citizens Details page](#) of the program website for information about the valid immigration statuses that are acceptable for program participation.

**ORISE Information:** This program, administered by ORAU through its contract with the U.S. Department of Energy (DOE) to manage the Oak Ridge Institute for Science and Education (ORISE), was established through an interagency agreement between DOE and USDA Forest Service. Participants do not become employees of USDA, USDA Forest Service, DOE or the program administrator, and there are no employment-related benefits. Proof of health insurance is required for participation in this program. Health insurance can be obtained through ORISE.

**Questions:** Please visit our [Program Website](#). After reading, if you have additional questions about the application process please email [ORISE.USFS.NRS@orau.org](mailto:ORISE.USFS.NRS@orau.org) and include the reference code for this opportunity.

**Qualifications** The qualified candidate should be currently pursuing an associate's or bachelor's degree in the one of the relevant fields.

**Preferred skills:**

- Some experience in laboratory work either through classes or other experience is helpful.





**Point of Contact** [Justina Conena](#)

**Eligibility Requirements**

- **Degree:** Currently pursuing an Associate's Degree or Bachelor's Degree.
- **Discipline(s):**

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- **Computer, Information, and Data Sciences** ([17](#) )
- **Earth and Geosciences** ([2](#) )
- **Environmental and Marine Sciences** ([14](#) )
- **Life Health and Medical Sciences** ([44](#) )