

Opportunity Title: USFS Postgraduate Research Opportunity Evaluating Forest

Carbon Models for Policy Development

Opportunity Reference Code: USDA-USFS-2022-0252

Organization U.S. Department of Agriculture (USDA)

Reference Code USDA-USFS-2022-0252

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<u>Store</u> or <u>Google Play Store</u> to help you stay engaged, connected, and informed during your ORISE experience and beyond!

A complete application package 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
- Two educational or professional recommendations. Applications need at least one recommendation submitted in order to be viewed by the mentor.

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

Application Deadline 8/29/2022 3:00:00 PM Eastern Time Zone

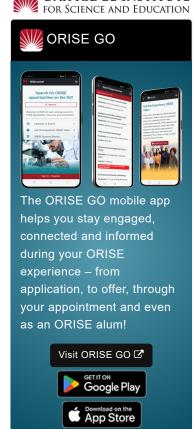
Description *Applications will be reviewed on a rolling-basis.

<u>USFS Office/Lab and Location</u>: A research opportunity is available at the U.S. Department of Agriculture (USDA) Forest Service (USFS), located in Corvallis or Portland, Oregon.

At the heart of the U.S. 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 U.S. 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 agency's monitoring of sequestration and emissions of carbon from forest lands has led to a need for managers and policy-makers to evaluate alternative approaches to managing and regulating forests on the West Coast. The selected participant will collaborate with staff to identify the strengths, weaknesses, and data requirements of alternative simulation models of forest carbon; compare the projections from alternative models with current status and dynamics of regional forests from Forest Inventory and Analysis (FIA) measurements; and help formulate recommendations for a modeling framework that builds on the extensive carbon inventories in the region.

Under the guidance of a mentor, the participant will be given the opportunity



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to (1) continue their professional development through immersion in carbon projections to meet regional land management challenges, (2) inform and contribute to decisions regarding forest, watershed, soil, and fire evaluation and management, (3) gain an understanding of complex natural systems and their representation in models, and (4) pursue research related to the intersection of natural resource management and carbon storage in forests and forest products.

Learning Objectives: The learning objectives for the project include: understanding the implicit goals and data requirements of alternative state-of-the-art forest ecosystem carbon models, learning to run one or more vegetation dynamics models in contrasting landscapes, and gaining experience in the analysis of large-scale multi-attribute temporal data from permanent inventory plots.

<u>Mentor</u>: The mentor for this opportunity is Andrew Gray (<u>andrew.gray@usda.gov</u>). If you have questions about the nature of the research please contact the mentor.

<u>Anticipated Appointment Start Date</u>: September 1, 2022. Start date is flexible and negotiable, and will depend on a variety of factors.

<u>Appointment Length</u>: The appointment will initially be for one year and eight months, but may be extended upon recommendation of USFS and is contingent on the availability of funds.

Level of Participation: The appointment is full-time.

<u>Participant Stipend</u>: The participant will receive a monthly stipend commensurate with educational level and experience.

<u>Citizenship Requirements</u>: This opportunity is available to U.S. citizens, Lawful Permanent Residents (LPR), and foreign nationals. Non-U.S. citizen applicants should refer to the <u>Guidelines for Non-U.S. Citizens Details</u> 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 USFS. Participants do not become employees of USDA, USFS, 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 <u>Program Website</u>. After reading, if you have additional questions about the application process please email <u>USForestService@orise.orau.gov</u> and include the reference code for this opportunity.

Qualifications The qualified candidate should have received a master's or doctoral degree in one of the relevant fields (e.g. Forestry, Natural Resource

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Science/Management), or be currently pursuing one of the degrees with completion by December 2022.

Candidates with demonstrated experience in quantitative analysis of data from forest ecosystems are preferred.

Preferred skills:

- Experience in analyzing forest ecosystem vegetation dynamics
- Demonstrated computing skills for analyzing complex datasets and interpreting output.
- Strong written and verbal communication skills
- Experience in sharing technical natural resource information with decision-makers and researchers through print and presentations

Eligibility Requirements

- Degree: Master's Degree or Doctoral Degree.
- Discipline(s):
 - Computer, Information, and Data Sciences (17.
 - Environmental and Marine Sciences (5.4)
 - Life Health and Medical Sciences (3 ●)
 - Mathematics and Statistics (1...)

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