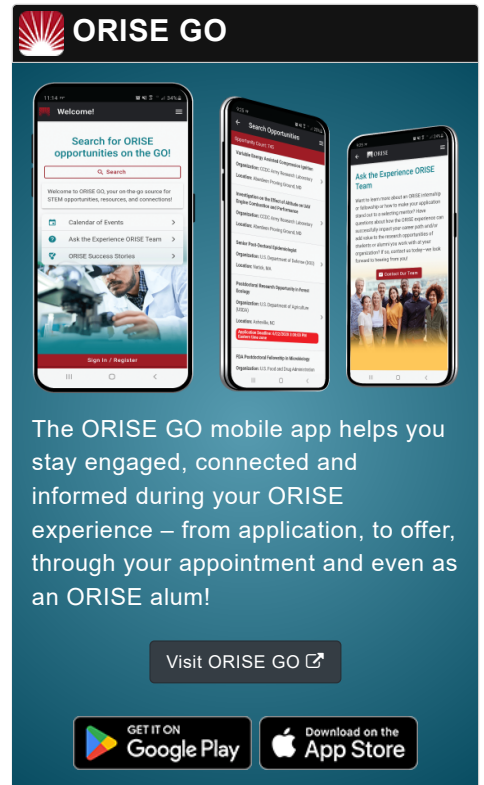


Opportunity Title: Air Quality Biomonitoring Research Opportunity

Opportunity Reference Code: USDA-USFS-2019-0182



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Organization U.S. Department of Agriculture (USDA)

Reference Code USDA-USFS-2019-0182

How to Apply 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. Selected candidate must provide proof of completion of the degree before the appointment can start. Proof must be sent to ORISE directly from the academic institution including graduation date and degree awarded. All transcripts must be in English or include an official English translation. Click [Here](#) for detailed information about acceptable transcripts.
- A current resume/CV
- Two educational or professional recommendations

If you have questions, send an email to USForestService@orise.ora.gov. Please include the reference code for this opportunity in your email.

Application Deadline 2/28/2020 3:00:00 PM Eastern Time Zone

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

A research opportunity is available with the U.S. Department of Agriculture (USDA), U.S. Forest Service (USFS), Water, Fish, Wildlife, Air, and Rare Plants directorate (WFWARP) at the agency's national headquarters in Washington, DC.

The research participant will gain first-hand knowledge of the Forest Service air program and how the agency coordinates with states, tribes and other federal agencies to protect the nation's air quality. By interacting with agency research scientists, the participant will learn how to manage and interpret large data sets and how to perform air quality and ecological analyses at decadal and regional to continental scales. The participant will also learn how to build effective federal/university/private landowner partnerships to 1) monitor and understand the effects of air pollution and other environmental stressors on forests and 2) improve communication, trust, and confidence between communities, university researchers, and government. The participant will coordinate with other USFS air specialists at national, regional and unit levels and will gain skills and experience related to air resource science and management.

Specific research topic areas for the research participant include:

- Assessing baselines, current status, and long term trends for air quality from USFS national scale lichen and deposition monitoring networks
- Methodologies for managing, interpreting, and reporting lichen bio-monitoring data
- Synthesis of critical loads of air pollution from various ecosystem indicators for use in environmental assessments.

Anticipated Appointment Start Date: January 6, 2020

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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. The initial appointment is for three months, but may be renewed for an additional year upon recommendation of USFS and is contingent on the availability of funds. The participant will receive a monthly stipend commensurate with educational level and experience. Proof of health insurance is required for participation in this program. The appointment is full-time at USFS in the Washington, DC, area. Participants do not become employees of USDA, USFS, DOE or the program administrator, and there are no employment-related benefits.

This opportunity is available to U.S. citizens only.

For more information about the USFS Research Participation Program, please visit the [Program Website](#).









Qualifications

The qualified candidate should have received a master's or doctoral degree in one of the relevant fields.

Preferred Skills:

- Training/experience in lichenology and air quality monitoring
- Experience in field-level biological or physical monitoring, data archiving and management, and data analysis
- Familiarity with Excel, relational databases and software for ecological analysis

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Master's Degree or Doctoral Degree.
- **Discipline(s):**
 - **Chemistry and Materials Sciences** (1 )
 - **Communications and Graphics Design** (1 )
 - **Computer, Information, and Data Sciences** (2 )
 - **Earth and Geosciences** (2 )
 - **Environmental and Marine Sciences** (5 )
 - **Life Health and Medical Sciences** (6 )
 - **Mathematics and Statistics** (1 )
 - **Physics** (1 )