

Opportunity Title: Expanding and Documenting Snow Mobility tools within GeoWATCH: Established Scientist
Opportunity Reference Code: ERDC-CRREL-2023-0009-ES

Organization U.S. Department of Defense (DOD)

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How to Apply *Click on APPLY now to start your application.*

Description The U.S. Army Cold Regions Research and Engineering Laboratory (CRREL) (est. February 1, 1961) solves interdisciplinary, strategically important problems for the Corps of Engineers, Army, Department of Defense, and the Nation. CRREL discovers, develops, and delivers advanced and applied science and engineering to complex environments, materials, and processes in all seasons and climates. Within the U.S. Army Engineer Research and Development Center, CRREL is a national resource focused on solving specific, customer-driven problems and conducting innovative research in five program areas - Civil Works - Engineered Resilient Systems - Environmental Quality & Installations - Geospatial Research & Engineering - Military Engineering.

What will I be doing?

You will collaborate with a team of junior and mid-level scientists to implement and document snow mobility algorithms within the GeoWATCH framework to expand the tool's cold weather capabilities. You will learn new land surface modeling platforms and tools as well as tactical scale soil moisture and mobility parameterizations. This learning will also include new development in Python coding.

Why should I apply?

This fellowship provides the opportunity to independently utilize your skills and engage with other scientists in innovative ideas to move the proposed research forward.

Where will I be located? Hanover, NH

What is the anticipated start date?

ERDC-CRREL is ready to make an appointment immediately. Exact start dates will be determined at the time of selection and in coordination with the selected candidates. Applications are reviewed on an ongoing basis and fellowships will be filled as qualified candidates are identified.

What is the appointment length?

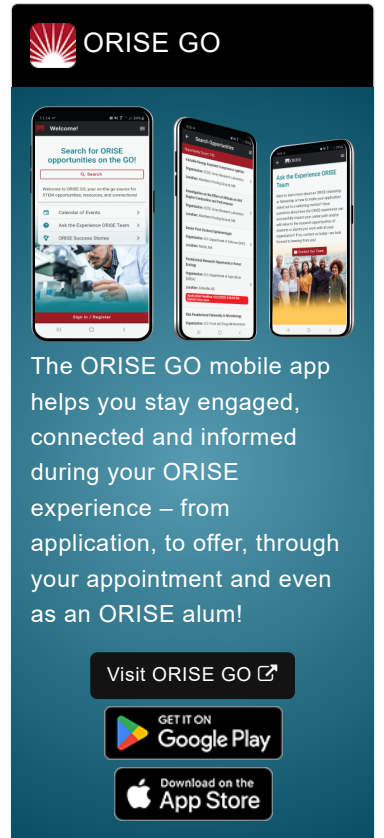
This ORISE appointment will be a part-time for six months. Appointments may be extended depending on funding availability, project assignment, program rules, and availability of the participant.

What are the benefits?

You will receive a stipend to be determined by ERDC-CRREL. Stipends are typically based on the participant's academic standing, discipline, experience, and research facility location. Other benefits may include the following:

- Health Insurance Supplement. *Participants are eligible to purchase health insurance through ORISE.*
- Relocation Allowance
- Training and Travel Allowance

About ORISE



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This program, administered by Oak Ridge Associated Universities (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 DoD. Participants do not enter into an employee/employer relationship with ORISE, ORAU, DoD or any other office or agency. Instead, you will be affiliated with ORISE for the administration of the appointment through the ORISE appointment letter and Terms of Appointment. Proof of health insurance is required for participation in this program. Health insurance can be obtained through ORISE. For more information, visit the [ORISE Research Participation Program at the U.S. Department of Defense](#)

Qualifications Knowledge in snow mobility modeling and snow strength parameterizations, with a long and distinguished scientific career in testing and modeling the impacts of snow on vehicle mobility in different environments is required. Knowledge and background in snow modeling and land surface modeling is desired.










A complete application consists of:

- Zintellect Profile
- Educational and Employment History
- Essay Questions (goals, experiences, and skills relevant to the opportunity)
- Resume (PDF)

Submitted documents must have all social security numbers, student identification numbers, and/or dates of birth removed (blacked out, blackened out, made illegible, etc.) prior to uploading into the application system. All documents must be in English or include an official English translation. If you have questions, send an email to usace@orise.orau.gov. Please list the reference code of this opportunity in the subject line of the email. Please understand that ORISE does not review applications or select applicants; selections are made by the sponsoring agency identified on this opportunity. All application materials should be submitted via the "Apply" button at the bottom of this opportunity listing. Please do not send application materials to the email address above.

Connect with ORISE...on the GO! Download the new ORISE GO mobile app in the Apple App Store or Google Play Store to help you stay engaged, connected, and informed during your ORISE experience and beyond!





Point of Contact [Debbie](#)

- Eligibility Requirements**
- **Citizenship:** U.S. Citizen Only
 - **Degree:** Doctoral Degree.
 - **Discipline(s):**
 - **Business** ([11](#) )
 - **Chemistry and Materials Sciences** ([12](#) )
 - **Communications and Graphics Design** ([6](#) )
 - **Computer, Information, and Data Sciences** ([17](#) )
 - **Earth and Geosciences** ([21](#) )
 - **Engineering** ([27](#) )
 - **Environmental and Marine Sciences** ([14](#) )
 - **Life Health and Medical Sciences** ([45](#) )
 - **Mathematics and Statistics** ([11](#) )

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- **Other Non-Science & Engineering** ([13](#) )
- **Physics** ([16](#) )
- **Science & Engineering-related** ([2](#) )
- **Social and Behavioral Sciences** ([29](#) )
- **Age:** Must be 18 years of age