

Opportunity Title: Doctoral Graduate Student: Geospatial tools to improve inlet sediment management -ERDC-CHL

Opportunity Reference Code: ERDC-CHL-2024-0001

Organization U.S. Department of Defense (DOD)

Reference Code ERDC-CHL-2024-0001

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

Description The Coastal and Hydraulics Laboratory (CHL, est. 1996) multi-disciplinary team of scientists, engineers and support personnel is internationally recognized for its world-class research. This 222-member group includes 152 scientists and engineers and 18 contractors, including 59 doctorate and 62 master's degrees. Along with access to unique, cutting-edge facilities, these team members have the experimental and computational expertise needed to solve water resource problems worldwide. CHL addresses an entire spectrum of water resource challenges in groundwater, watersheds, rivers, reservoirs, estuaries, harbors, coastal inlets and wetlands.

What will I be doing?

Under a guidance of a mentor, you will join a team of ERDC-CHL researchers in a research project which will take part in developing and applying innovative solutions to characterize inlet geomorphology, particularly sand shoals and channel geometry. You will participate in a research and development opportunity and test applications of Geographic Information System (GIS) tools and toolboxes for coastal inlets. In this educational opportunity, you will leverage existing topographic and bathymetric data and imagery for analysis of geomorphic features and bathymetric change. Additional field data may be collected as part of this project through collaboration with USACE districts, academic partners, or federal partners. Data processing and analytics will be performed in the Python programming language and will require prior knowledge of ArcGIS Pro and other GIS software. This educational opportunity will allow you to integrate the results of this project into your own research products (e.g., graduate program-related journal articles, thesis/dissertation chapters).

Why should I apply?

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

Where will I be located? Location Varies

What is the anticipated start date? January 2024

Exact start date will be determined at the time of selection and in coordination with the selected candidate.

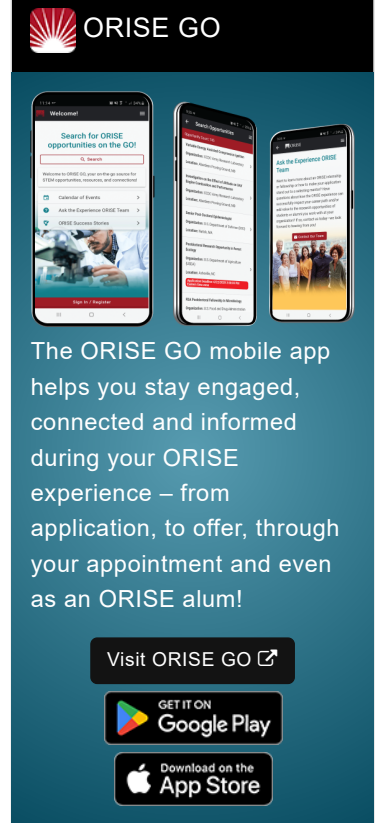
What is the length of the appointment?

This ORISE appointment is a full-time seven-month opportunity. 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-CHL. 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



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- Relocation Allowance
- Training and Travel Allowance

About ORISE

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 The ideal candidate is currently pursuing a PhD in earth science/geology, marine science, oceanography, geography, and/or civil/environmental engineering, or related field. Coursework and/or experience in geospatial sciences and coastal geosciences or engineering is preferred.

Application Requirements

A complete application consists of:

- Zintellect Profile
- Educational and Employment History
- Essay Questions (goals, experiences, and skills relevant to the opportunity)
- Resume (PDF)
- Transcripts/Academic Records - For this opportunity, an official 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](#).
- One recommendation. Your application will be considered incomplete and will not be reviewed until one recommendation is submitted. We encourage you to contact your recommender(s) as soon as you start your application to ensure they are able to complete the recommendation form and to let them know to expect a message from Zintellect. Recommenders will be asked to rate your scientific capabilities, personal characteristics, and describe how they know you. You can always log back in to your Zintellect account and check the status of your application.

Submitted documents must have all social security numbers, student identification numbers, and/or dates of birth removed (blanked 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.

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- Eligibility**
- Requirements**
- **Degree:** Currently pursuing a Doctoral Degree.
 - **Discipline(s):**
 - **Earth and Geosciences** ([21](#) 👁)
 - **Engineering** ([5](#) 👁)
 - **Environmental and Marine Sciences** ([14](#) 👁)
 - **Social and Behavioral Sciences** ([1](#) 👁)
 - **Age:** Must be 18 years of age