Opportunity Title: ERDC 2022 Summer Research Internship Opportunities
Opportunity Reference Code: ERDC-CERL-2022-0001

Organization	U.S. Department of Defense (DOD)
Reference Code	ERDC-CERL-2022-0001
How to Apply	*Click on APPLY now to start your application.*

Description

The U.S. Army Corps of Engineers (USACE) Engineer Research and Development Center (ERDC) develops and infuses innovative technologies to provide excellent facilities and realistic training lands for the Department of Defense, the U.S. Army and many other customers while also supporting ERDC's research and development mission in geospatial research and engineering, military engineering, and civil works.

ERDC directs its research efforts toward increasing the Army's ability to more efficiently design, construct, operate and maintain its installations and contingency bases and to ensure environmental quality and safety at a reduced life-cycle cost. Excellent facilities support the Army's training, readiness, mobilization and sustainability missions. Adequate infrastructure and realistic training lands are critical assets to installations in carrying out their military missions. Efficient contingency bases, which minimize the use of external resources and the generation of waste and enhance relations with local communities, are critical for successful deployments in all situations— from disaster response and humanitarian assistance to stability operations and conflicts.
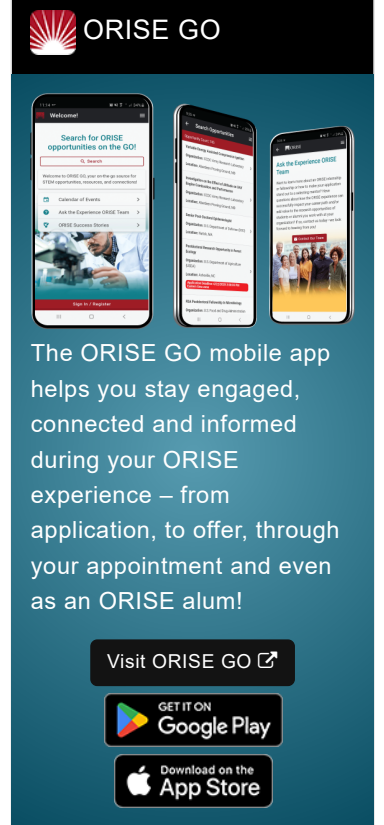
Under the guidance of mentors, you will conduct research alongside ERDC staff and primary researchers. Through your participation in the ORISE program at ERDC laboratories, you will be introduced to a real world laboratory environment as well as modern research technologies and techniques. This experience will inspire you to continue to pursue STEM disciplines as a career pursuit.

Specific Project Focus for 2022:

1.) Soil Activity Model

2.) Additive Construction (large scale 3d printing)

3.) Harmful Algal Bloom Interception, Treatment, and Transformation System (HABITATS)

4.) Coatings and Corrosion for Installation Resilience

5.) ADH Dynamic Model Interface Development

6.) Coastal Hazards System -Programming, and Coastal Engineering

7.) Navy Waterfront: Dataset Development and Degradation Study

8.) Computational Fluid Dynamics (CFD) Modeling for Ship Motion and Wave Overtopping

9.) Tactical Geospatial Information Capabilities - Tactical Geospatial Information Capabilities

10.) Quantifying uncertainty using the Analog Ensemble (AnEn) Technique

11.) UGV Mapping -Software Development

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. There are multiple opportunities available to engage in your applied research and evaluation interests.

![zintellect climb higher]

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Where will I be located? Location Varies

What is the anticipated start date?

ERDC is ready to make appointments immediately. Exact start date will be determined at the time of selection and in coordination with the selected candidate.

What are the benefits?

You will receive a stipend to be determined by ERDC. 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

?**What is the length of the appointment?**

This ORISE appointment is full-time for 10-12 weeks. Appointments may be extended depending on funding availability, project assignment, program rules, and availability of the participant.

Nature of Appointment

You will 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.

Qualifications This research opportunity is open to STEM students and recent graduates who are interested in hands-on experience in a real world laboratory environment. The focus on personal career development in the areas of STEM, providing opportunities to collaborate and network with other students and researchers across all STEM disciplines.

A complete application consists of:

- Zintellect profile
- Essay Questions - The application includes questions specific to the opportunity.
- 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.
- Current Resume/CV
- One (1) Recommendation - Applicants are required to provide contact information for at least one recommendation. You are encouraged to request a recommendation from a professional who can speak to your abilities and potential for success as well as your scientific capabilities and personal characteristics. Recommendation requests must be sent through the Zintellect application system. Recommenders will be asked to complete a recommendation in Zintellect. Letters of recommendation submitted via email will not be accepted.

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 ERDC-CERL-2022-0001 in the subject line of the email. 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!

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** High School Diploma/GED, Associate's Degree, Bachelor's Degree, or Master's Degree received within the last 60 months or currently pursuing.
- **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** (48 👁)
  - **Mathematics and Statistics** (11 👁)
  - **Other Non-Science & Engineering** (13 👁)
  - **Physics** (16 👁)
  - **Science & Engineering-related** (2 👁)
  - **Social and Behavioral Sciences** (29 👁)
- **Age:** Must be 18 years of age