

Opportunity Title: Biological Sciences Research Internship - Undergraduate or Post-bachelor

Opportunity Reference Code: ERDC-EL-2023-0018

Organization U.S. Department of Defense (DOD)

Reference Code ERDC-EL-2023-0018

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

Description The Environmental Laboratory (EL) is one of the seven laboratories of U.S. Army Engineer Research and Development Center (USACE-ERDC), which is the Army Corps of Engineers' integrated research and development (R&D) organization. EL provides solutions to environmental challenges for the U.S. Army, the Department of Defense and the Nation through environmental science and engineering research and development. Researchers in EL conduct research in ecosystem science and technology, environmental resiliency, environmental sensing, ecological modeling and forecasting, risk and decision science, environmentally sustainable material, systems biology, climate change, computational chemistry, environmental chemistry and environmental security.

What will I be doing?

Under the guidance of a mentor, you will focus on laboratory, mesocosm, and field-scale aquatic plant management research. You will gain experience in a variety of research activities including, but not limited to; aquatic plant culturing, plant physiology, herbicide technology, and nuisance aquatic plant management strategies, and you will expand your knowledge and proficiency in the areas such as aquatic plant biology and ecology, weed science, herbicide application technology, and herbicide physiology. You will have the opportunity to learn how to function in a highly dynamic interdisciplinary environment, enhance record keeping skills, and gain overall knowledge of wetland and aquatic systems. Finally, you will collaborate with federal research scientists in meeting research obligations the opportunity to contribute to publications and professional conference presentations.

Why should I apply?

This internship 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.

Where will I be located? Location Varies

What is the anticipated start date?

ERDC-EL is ready to make an appointment immediately. The exact start date will be determined at the time of selection and in coordination with the selected candidate.

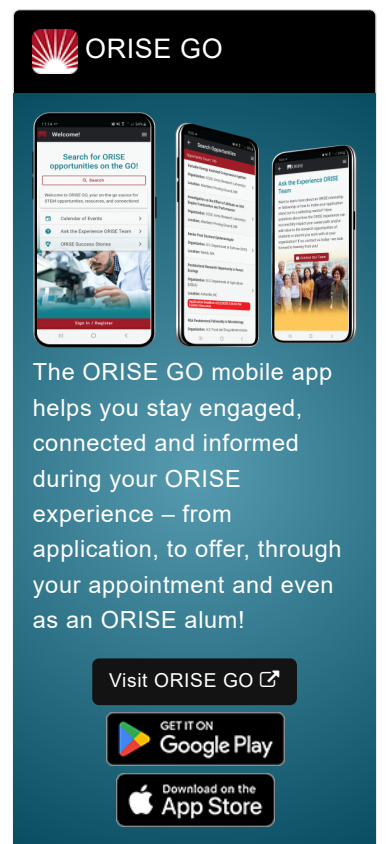
What is the length of the appointment?

This ORISE appointment is a full-time twelve-month research appointment, with the possibility to be renewed for additional research periods. Appointment 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-EL. 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 GO

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ORISE.

- 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 Qualified applicants will have an earned bachelor's degree in biology or a related discipline or will receive their degree within 12 months of the appointment start. The preferred candidate will have knowledge experimental design, water quality sampling, aquatic field-based data collection, herbicide application and residue sampling, data entry and analysis, and general weed science. Highly preferred skills include experience in a laboratory, familiarity with mesocosm, and demonstrated field-scale weed science research. Additional knowledge preferred but not required: statistical software such as R or SAS, Microsoft office programs, conference presentations, and the writing of peer-reviewed journal articles.

A complete application consists of:

- Zintellect profile
- Educational and Employment History
- 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 - 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. The status will go from Started to Submitted and then to Completed once the required recommendations have been received.

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

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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:** Bachelor's Degree or Master's Degree received within the last 60 months or anticipated to be received by 10/31/2024 12:00:00 AM.
 - **Discipline(s):**
 - **Chemistry and Materials Sciences** ([12](#))
 - **Earth and Geosciences** ([21](#))
 - **Engineering** ([27](#))
 - **Environmental and Marine Sciences** ([14](#))
 - **Life Health and Medical Sciences** ([48](#))
 - **Mathematics and Statistics** ([11](#))
 - **Physics** ([16](#))