

Opportunity Title: Ecology: Invasive Species & Biological Control - Postgraduate

Opportunity Reference Code: ERDC-EL-2022-0006

Organization U.S. Department of Defense (DOD)

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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 participate in a number of research projects related to invasive species ecology and management and plant-insect interactions. Research activities include: rearing, release, and monitoring of cold-hardy biological control agents (BCAs), assessing cold tolerance of biological control agents, investigating how climate change will impact established weed management systems, and developing integrated pest management strategies for invasive environmental weeds. Specifically, you will be researching the BCAs *Agasicles hygrophila* and *Amynothrips andersoni* for the control of alligatorweed. You will have the opportunity to conduct greenhouse, laboratory, and field experiments to better understand BCAs and invasive species management and present results at academic conferences. You will be part of a team to study invasive species and their management. You will also likely have the opportunity to collaborate with scientists of varying backgrounds and expertise on other biocontrol and weed management programs.

Where will I be located? Vicksburg, Mississippi

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.

What is the anticipated start date? June 1, 2022

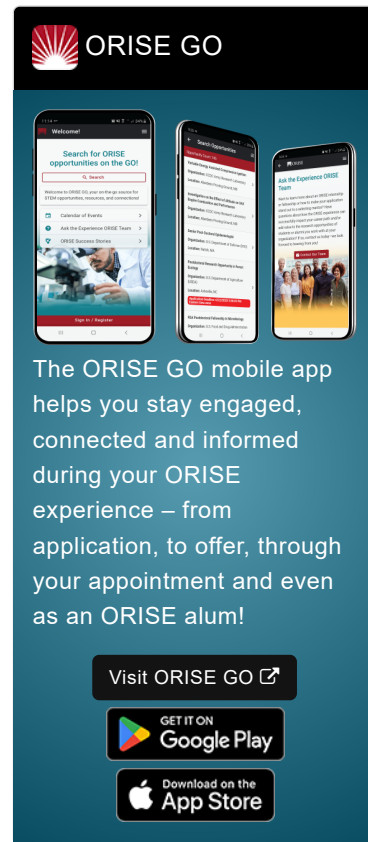
ERDC-EL is ready to make an appointment. Exact start date will be determined at the time of selection and in coordination with the selected candidate.

What is the length of the appointment?

This ORISE appointment is full-time twelve month duration. 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-EL. Stipends are typically based on the participant's academic standing, discipline, experience, and research facility location. Other benefits may include the following:



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

Nature of the 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 You should have a bachelor's degree or higher in Ecology or related field. You should demonstrate the ability to research both independently and on a multidisciplinary team, be self-motivated to perform high-quality, detailed research towards solving complex invasive species problems, and contribute to scientific publications and/or technical reports.

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 - 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-EL-2022-0006 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

- **Degree:** Bachelor's Degree or Master's Degree received within the last 36 month(s).
- **Overall GPA:** 3.00
- **Academic Level(s):** Post-Bachelor's or Post-Master's.

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- **Discipline(s):**
 - **Environmental and Marine Sciences** ([14](#) 👁)
 - **Life Health and Medical Sciences** ([48](#) 👁)
- **Age:** Must be 18 years of age