Opportunity Title: Chemistry / Engineering (Materials, Environmental or Analytical) Fellowship
Opportunity Reference Code: ERDC-EL-2022-0017

Organization U.S. Department of Defense (DOD)

Reference Code ERDC-EL-2022-0017

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 be part of a team dedicated to discovering, developing, and delivering solutions to challenges in environmental analysis, climate change mitigation, and renewable power (AMP). You will have the opportunity to participate and gain knowledge in their choice of cross-cutting projects bridging analytical chemistry, electrochemistry, and materials science and participate in a multi-disciplinary environment to design and execute experiments, pursue internal and external funding, publish in peer-reviewed journals, and establish collaborative connections with industry, academic, and government partners.

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.

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 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-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.
- Relocation Allowance
- Training and Travel Allowance

Opportunity Title: Chemistry / Engineering (Materials, Environmental or Analytical) Fellowship
Opportunity Reference Code: ERDC-EL-2022-0017

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

Currently pursuing or received a Bachelors, Masters or Doctorate degree in Chemistry, Materials Science, Materials Engineering, or a closely related field. Prior experience with instrumentation or strong background in laboratory research and exposure to one or more of the following skill-sets are desirable: electrochemical methods (CV, SECM, EIS, etc.), spectroscopy (NMR, UV-Vis, FTIR), chromatography/mass spectrometry (LC-MS, GC-MS, MS/MS, ICP-MS), probe microscopy (AFM, SECM), or elemental analysis (XPS, XRF, EDX). Research with high entropy alloys, construction materials (concrete, asphalt, mass timber), AFM-SECM, thin film polymers, or explosives detection/quantification are not necessary but highly desirable.

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 (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.

Connect with ORISE...on the GO! Download the new ORISE GO mobile app in the Apple App

zintellect
climb higher

Opportunity Title: Chemistry / Engineering (Materials, Environmental or Analytical) Fellowship
Opportunity Reference Code: ERDC-EL-2022-0017

Store or Google Play Store to help you stay engaged, connected, and informed during your ORISE experience and beyond!

Eligibility Requirements

- **Citizenship:** LPR or U.S. Citizen
- **Degree:** Bachelor's Degree, Master's Degree, or Doctoral Degree received within the last 60 months or currently pursuing.
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (2 👁)
  - **Computer, Information, and Data Sciences** (17 👁)
  - **Earth and Geosciences** (21 👁)
  - **Engineering** (27 👁)
  - **Environmental and Marine Sciences** (14 👁)
  - **Physics** (16 👁)
  - **Science & Engineering-related** (1 👁)
- **Age:** Must be 18 years of age