

Opportunity Title: Engineering Student: Installation Energy and Water Resiliency

Opportunity Reference Code: ERDC-CERL-2021-0005

Organization U.S. Department of Defense (DOD)

Reference Code ERDC-CERL-2021-0005

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

Application Deadline 5/31/2021 3:00:00 PM Eastern Time Zone

Description The U.S. Army Corps of Engineers (USACE) Engineer Research and Development Center (ERDC) Construction Engineering Research Laboratory (CERL) 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.

CERL 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.

What will I be doing?

Under the guidance of mentors, you will conduct research in the development of IEWPs which will improve energy and water resiliency when implemented. IEWPs are a requirement of Army Directive 2020-03 (Installation Energy and Water Resilience Policy), which establishes energy and water resilience requirements for Army installations in support of the 2018 National Defense Strategy and Army Vision.

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.

Research Areas Includes:

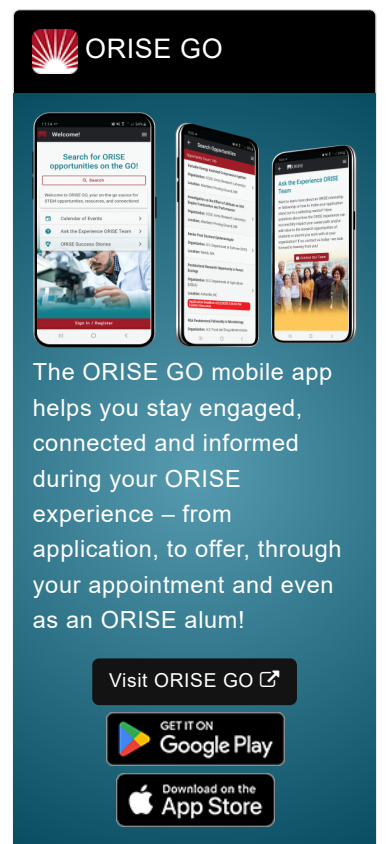
- Review and analyze Army installation energy data related to supply, distribution, system operation, facility usage, and critical mission requirements.
- Develop and document potential solutions and Courses of Action (COAs) to mitigate deficiencies found in Army installation energy supply, distribution, system operation, and critical mission sustainment.
- Develop and document potential energy efficiency measures and renewable energy options for Army installation facilities.

Where will I be located? This will be a remote appointment.

What is the anticipated start date?

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

What are the benefits?



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You will receive a stipend to be determined by ERDC-CERL. 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

This ORISE appointment is a 10-week spring/summer opportunity. 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 Students enrolled in General, Electrical, or Mechanical Engineering are encouraged to apply. The focus is on personal career development in the areas of STEM, providing opportunities to collaborate and network with other students and researchers.

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 (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 ERDC-CERL-2021-0005 in the subject line of the email.

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- Eligibility Requirements**
- **Degree:** Currently pursuing a High School Diploma/GED, Associate's Degree, Bachelor's Degree, Master's Degree, or Doctoral Degree.
 - **Academic Level(s):** Graduate Students, K-12 Students, Post-Associate's, Post-Bachelor's, or Undergraduate Students.
 - **Discipline(s):**
 - **Chemistry and Materials Sciences** ([12](#))
 - **Computer, Information, and Data Sciences** ([17](#))
 - **Earth and Geosciences** ([21](#))
 - **Engineering** ([27](#))
 - **Environmental and Marine Sciences** ([14](#))
 - **Life Health and Medical Sciences** ([45](#))
 - **Mathematics and Statistics** ([10](#))
 - **Physics** ([16](#))
 - **Science & Engineering-related** ([1](#))
 - **Age:** Must be 16 years of age