

Opportunity Title: USARIEM Biomedical Engineering & Instrumentation Internship

Opportunity Reference Code: USAMRDC-RIEM-2026-0003

Organization U.S. Department of Defense (DOD)

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How to Apply Click on *Apply* at the bottom of the opportunity to start your application.

Description The United States Army Research Institute of Environmental Medicine (USARIEM) is offering a post-bachelor's-level fellowship in biomedical/mathematical modeling of humans exposed to extreme and austere environments such as extreme cold and heat.

What will I be doing?

You will be part of a multi-faceted team that will be developing biomedical modeling solutions that will aid in protecting Soldiers exposed to extreme environments, including heat, cold, high-altitude, and subterranean. You will be using specialized software tools, such as COMSOL, to run and analyze different scenarios and develop guidance, design, and develop user-friendly digital tools that help Soldiers manage cold and heat stress to prevent injury and maximize performance in these austere environments.

Why should I apply?

Under the guidance of a mentor, you will have the opportunity to expand your skill set and gain valuable training and experience to further your scientific development. Throughout your internship, your mentor will develop learning objectives to fit your personal career development goals, while providing guidance and education that will prepare you for your future.

Where will I be located?

Natick, Massachusetts

Please note this opportunity may include some travel.

What is the anticipated start date?

The USARIEM is ready to make appointments effective October 2026. Exact start dates will be determined at the time of selection and in coordination with the selected candidate. Applications are reviewed on an ongoing basis, and internships will be filled as qualified candidates are identified.

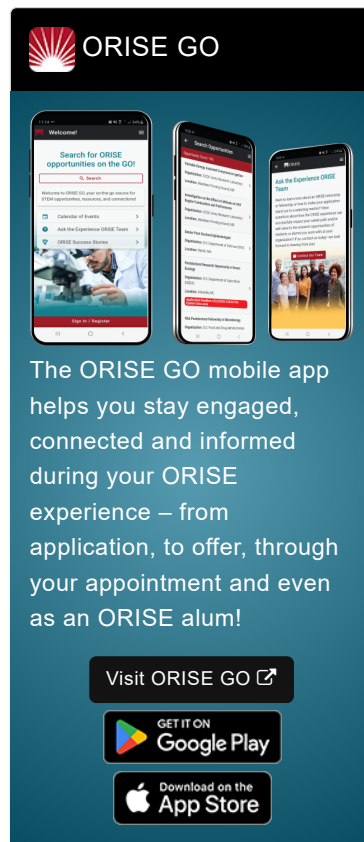
Appointment Length

This is initially a part-time, six-month research appointment, with the possibility of renewal for up to four additional years, depending on funding availability, project assignment, program rules, and the participant's availability.

What are the benefits?

You will receive a stipend to be determined by USARIEM. Stipends are typically based on a 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



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- Training and Travel Allowance

About USARIEM

The U.S. Army Research Institute of Environmental Medicine (USARIEM), in Natick, Massachusetts, has four divisions: Military Nutrition, Military Performance, Thermal and Mountain Medicine, and Research Support. By leveraging its unique capabilities and facilities with industry, academia, and the government, USARIEM produces various essential products, including performance optimization doctrine, preventive medicine, planning doctrine, materiel development support, physiological monitoring strategies and predictive algorithms, and Health Hazard Assessments.

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 The qualified candidate will have a bachelor's degree in biomedical engineering, Electrical Engineering, Mathematics, or a similar discipline. Degree must have been received within five years of the appointment start date.

Additional Requirements:

Must be able to pass a Federal Background Check

Highly competitive applicants will have the following knowledge, skills, and qualities:

- Excellent organizational skills, attention to detail, and sound skills in written and oral communication
- Advanced computer skills, including MATLAB, COMSOL, and MS Visual Studio.
- Good knowledge of 3D scanning systems, including data acquisition and data processing.
- Knowledge of basic temperature regulation, clothing, and engineering principles
- Excellent teamwork skills, who take initiative and are willing to learn new/different roles during their experience.
- Utilizing their engineering/mathematics expertise to contribute to team projects.

Application Requirements

A complete application consists of the following:

- Zintellect Profile
- Educational and Employment History
- CV and Cover Letter describing achievements, research interests, career goals, reason of interest, and suitability for this appointment (maximum two pages) - please upload to the resume section on the application
- Transcripts/Academic Records - For this opportunity, an unofficial transcript or copy of the

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student's academic records printed by the applicant or by academic advisors from internal institution systems may be submitted. [Click here for detailed information about acceptable transcripts.](#)

- One Recommendation
- If you have questions, send an email to orise-army-mrdc-riem@orise.orau.gov. Please list the reference code of this opportunity, USAMRDC-RIEM-2026-0003, in the email's subject line. 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!

Stipend \$35,243.00 – \$37,973.00 Yearly

Point of Contact [Brittany](#)

Eligibility

Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Bachelor's Degree received within the last 60 month(s).
- **Discipline(s):**
 - **Engineering** ([27](#) )
 - **Life Health and Medical Sciences** ([48](#) )
 - **Social and Behavioral Sciences** ([29](#) )
- **Age:** Must be 18 years of age