

Opportunity Title: Physiological Monitoring & Threat Detection Summer Fellowship

Opportunity Reference Code: USAMRDC-RIEM-2023-0009

Organization U.S. Department of Defense (DOD)

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

Description The U.S. Army Research Institute of Environmental Medicine (USARIEM) is offering an engineering fellowship for currently pursuing or bachelor's degree-received candidates.

What will I be doing, and why should I apply?

Under the guidance of a mentor, you will partake in research assignments that will provide hands-on experience, research development, and applications of next-generation fiber- and fabric-based computational fibers that enable physiological monitoring, environmental sensing, and threat detection. During this appointment, you will have the opportunity to apply your engineering education and gain a broad range of engineering and life science knowledge in areas related to the agency's mission of protecting the health and performance of soldiers. Areas of interest to learn and gain experience include production, programming, testing and evaluation, demonstration, laboratory and field research, and deployment of sensory and computational fibers and fabrics.

Where will I be located?

These activities will be primarily on-site at USARIEM (Natick, MA) and the International Fabric Machines (Boston, MA).

What is the anticipated start date?

The USARIEM is ready to make appointments effective May 22, 2023. 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

An ORISE appointment period can be a short-term (less than two weeks), summer (10-12 weeks), or year-long appointment. Appointments may be extended depending on funding availability, project assignment, program rules, and availability of the participant.

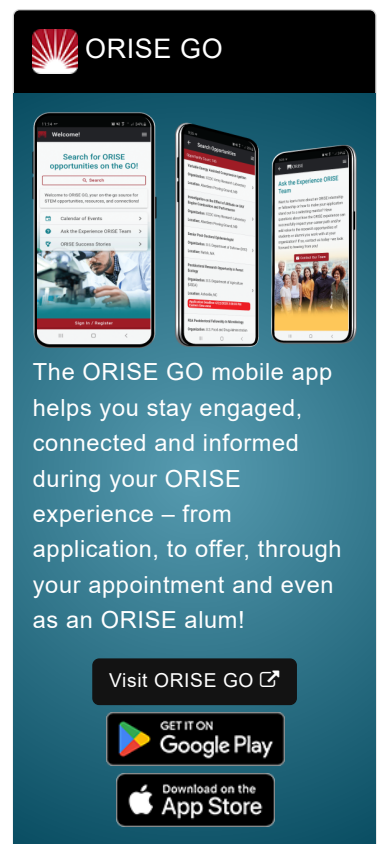
What are the benefits?

You will receive a stipend to be determined by the Department of Defense (DoD). 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
- Training and Travel Allowance

Nature of Appointment

The participant will not enter into an employee/employer relationship with ORISE, ORAU, DOD, or any other office or agency. Instead, the participant will be affiliated with ORISE for the administration of the appointment through the ORISE appointment letter and Terms of Appointment.



ORISE GO

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About USARIEM

The U.S. Army Research Institute of Environmental Medicine (USARIEM), located in Natick, Massachusetts, is recognized as the DoD's premier laboratory for Warfighter health and performance research and focuses on environmental medicine, physiology, physical and cognitive performance, and nutrition research. Military guidance has been published for operations in heat, cold, and high-altitude environments and nutrition for health and performance.

The Institute is organized into 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 a variety of important products, including performance optimization doctrine, preventive medicine, and 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 Qualified candidates must be current students pursuing or have obtained a Bachelor's degree.

Highly competitive applicants will have experience or skills in the following:

- Knowledge of thermodynamics, fluid dynamics, and solid modeling.
- Skills related to SolidWorks, machining, fabrication, programming (e.g., MatLab), and data analysis.

The successful applicant will be required to comply with Environmental, Safety, and Health (ES&H) requirements of the host facility, including but not limited to COVID-19 requirements (e.g., facial covering, physical distancing, testing, vaccination).

Application Requirements

A complete application consists of the following:

- Zintellect Profile
- Educational and Employment History
- Essay Questions (goals, experiences, and skills relevant to the opportunity)
- Resume (PDF)
- Transcripts/Academic Records - For this opportunity, an unofficial transcript or copy of the student 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](#).

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- One Recommendation

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 ARMY-MRMC@orise.orau.gov. Please list the reference code of this opportunity USAMRDC-RIEM-2022-0008 in the subject line of the email.

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- Eligibility Requirements**
- **Citizenship:** U.S. Citizen Only
 - **Degree:** Bachelor's Degree received within the last 60 months or anticipated to be received by 5/31/2024 12:00:00 AM.
 - **Discipline(s):**
 - **Computer, Information, and Data Sciences** ([17](#))
 - **Engineering** ([27](#))
 - **Life Health and Medical Sciences** ([48](#))
 - **Social and Behavioral Sciences** ([29](#))
 - **Age:** Must be 18 years of age