

Opportunity Title: Environmental Physiology Research Internship at USARIEM

Opportunity Reference Code: USAMRMC-RIEM-2021-0049

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 Thermal and Mountain Medicine Division of The U.S. Army Research Institute of Environmental Medicine (USARIEM), located in Natick, Massachusetts, is offering a Bachelor's or Master's level internship opportunity.

What will I be doing?

As an ORISE participant, you will join a community of scientists and researchers in an effort to gain knowledge in human physiological responses to heat, cold and/or high altitude.

Why should I apply?

Under the guidance of a mentor, you will gain hands-on experience to complement your education and support your academic and professional goals. Along the way, you will engage in activities and research in several areas, including but not limited to:

- Federal laboratory and operational protocols including the planning and organization of research studies, data collection from human volunteer subjects (for example, exercise testing, thermal & cardiovascular responses to heat and cold, blood samples, etc.).
- The physiology of responses to exercise and environment in humans, including core and skin temperatures, sweating, shivering, breathing and heart rate responses.
- The knowledge and understanding about physiology research methodology associated with exercise and environment.

Please note this opportunity may include some travel to Pikes Peak, CO, to participate in research data collection for a study of physiology and exercise performance at high altitude.

Where will I be located?

Natick, Massachusetts

What is the anticipated start date?

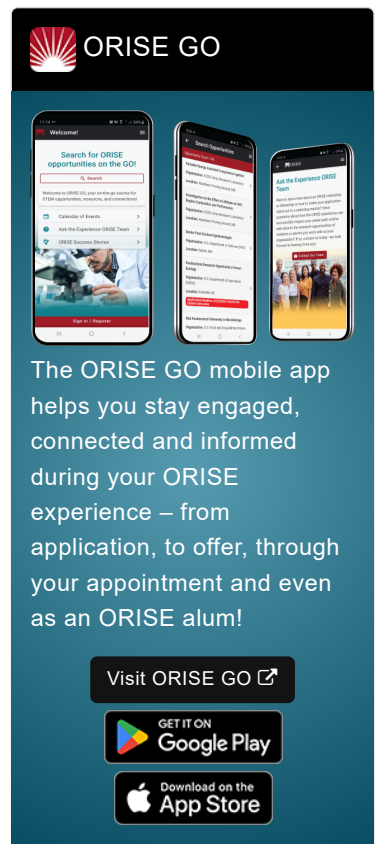
USARIEM is ready to make an appointment immediately. Exact start date will be determined at the time of selection and in coordination with the selected candidate. Applications are reviewed on an ongoing basis and internships will be filled as qualified candidates are identified.

What is the appointment length?

This appointment is a twelve month research appointment, with the possibility to be renewed for additional research periods. 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 USARIEM. Stipends are typically based on a 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

About USARIEM

The U.S. Army Research Institute of Environmental Medicine (USARIEM), located in Natick, Massachusetts, is an internationally recognized center of excellence for Warfighter health and performance science and its applications. The Institute functions as a world-class laboratory for environmental medicine, physiology, and nutrition research. USARIEM's highly skilled scientists conduct research in Biophysics & Biomedical Modeling (BBMD), Military Nutrition (MND), Military Performance (MPD), and Thermal & Mountain Medicine (TMMD). For more information about the USARIEM, please visit <https://www.usariem.army.mil/>.

The Thermal and Mountain Medicine Division (TMMD) researches the physiological impacts of exposure to extreme environments (heat, cold, altitude, subterranean) to mitigate the adverse effects of these environmental stressors on the health, performance, and mission-readiness of military personnel. TMMD's research seeks to optimize and enhance physical and cognitive performance and prevent illness associated with military operations at environmental extremes, such as heat, cold, high terrestrial altitude, and subterranean spaces. TMMD's research supports physiological modeling and military materiel developers of clothing, equipment, food, and pharmaceuticals.

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 or master's degree or will have completed their degree by January 30, 2022, in biology, exercise science or a similar discipline. Degree must have been received within five years of the appointment start date.

Highly competitive applicants will have experience in the following:

- Knowledge of military scientific practices and protocols.
- Experience with briefing and obtaining written informed consent from prospective study participants and maintaining study files.
- Familiarity with protections for human subjects research and HIPAA requirements is preferred.
- Excellent teamwork skills, who take initiative and are willing to learn new/different roles during their experience.

Application Requirements

A complete application consists of:

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- 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.](#)
- One Recommendation

If you have questions, send an email to ARMY-MRMC@orise.orau.gov. Please list the reference code of this opportunity USAMRMC-RIEM-2021-0049 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.

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**Eligibility
Requirements**

- **Citizenship:** U.S. Citizen Only
- **Degree:** Bachelor's Degree or Master's Degree received within the last 60 months or anticipated to be received by 1/30/2022 12:00:00 AM.
- **Discipline(s):**
 - **Chemistry and Materials Sciences** ([12](#) )
 - **Communications and Graphics Design** ([2](#) )
 - **Computer, Information, and Data Sciences** ([17](#) )
 - **Earth and Geosciences** ([21](#) )
 - **Engineering** ([27](#) )
 - **Environmental and Marine Sciences** ([14](#) )
 - **Life Health and Medical Sciences** ([46](#) )
 - **Mathematics and Statistics** ([10](#) )
 - **Physics** ([16](#) )
 - **Science & Engineering-related** ([1](#) )
 - **Social and Behavioral Sciences** ([28](#) )
- **Age:** Must be 18 years of age
- **Veteran Status:** Veterans Preference, degree received within the last 120 month(s).