

Opportunity Title: Environmental Physiology Undergraduate Internship

Opportunity Reference Code: USAMRDC-RIEM-2023-0010

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) is offering an Undergraduate Internship in the research area of environmental physiology for the summer of 2023.

What will I be doing?

As an ORISE participant, you will join a community of scientists and researchers to understand human physiological responses to environmental extremes, with a focus on high terrestrial 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. You will also engage in activities and research in several areas. These include, but are not limited to:

- Experience in federal laboratory and operational protocols for doing research with human subjects
- Traveling to Pikes Peak, CO, to participate in research data collection for a study of physiology and exercise performance at high altitude.
- Learning about research in Natick, MA, using a hypobaric chamber to simulate a high-altitude environment
- Learning to take measurements of variables including heart rate, oxygen consumption, and core temperature during exercise

Where will I be located?

Natick, Massachusetts

What is the anticipated start date?

The USARIEM is ready to make an appointment effective in **Summer 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 the internship will be filled as a qualified candidate is identified.

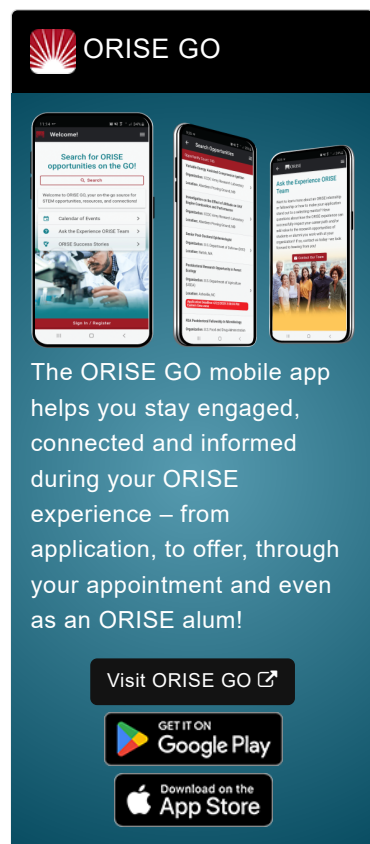
What is the appointment length?

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 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*)



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- 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.

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 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 be pursuing an undergraduate degree with completed exercise and environmental physiology coursework.

Highly competitive candidates will have an understanding of the basics of human anatomy and physiology; and an enthusiastic interest in learning about military physiology research.

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

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institution systems may be submitted. [Click here for detailed information about acceptable transcripts.](#)

- One Recommendation

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 ARMY-MRMC@orise.ora.gov. Please list the reference code of this opportunity USAMRDC-RIEM-2023-0010 in the email's subject line.

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- Eligibility Requirements**

- **Citizenship:** U.S. Citizen Only
 - **Degree:** Bachelor's Degree received within the last 60 months or currently pursuing.
 - **Discipline(s):**
 - **Chemistry and Materials Sciences** ([12](#) 👁)
 - **Communications and Graphics Design** ([1](#) 👁)
 - **Earth and Geosciences** ([21](#) 👁)
 - **Engineering** ([27](#) 👁)
 - **Environmental and Marine Sciences** ([14](#) 👁)
 - **Life Health and Medical Sciences** ([46](#) 👁)
 - **Science & Engineering-related** ([1](#) 👁)
 - **Social and Behavioral Sciences** ([28](#) 👁)
 - **Age:** Must be 18 years of age