

Opportunity Title: Musculoskeletal Injury and Human Performance Research

Intern- Master's Degree

Opportunity Reference Code: USAMRMC-RIEM-2021-0017



Organization U.S. Department of Defense (DOD)

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

Description

The U.S. Army Research Institute of Environmental Medicine (USARIEM) is offering a bachelor's/master's internship at the Natick, Massachusetts facility. The Military Performance Division of USARIEM is focused on research to optimize Warfighter performance and operational effectiveness, and prevent or mitigate performance decrements due to physical or mental overload, nutritional deficits, environmental and occupational hazards, or musculoskeletal injury.

What will I be doing?

As an ORISE participant you will join a community of scientists and researchers in an effort to assist in Military Performance Division and Institute research by conducting biochemical analyses in USARIEM's Central Laboratory. Two major research efforts in the division include studying the impact of nonsteroidal anti-inflammatory drugs on bone and muscle adaptation to exercise, and a large, multi-site study, Army Research Institute of Environmental Medicine (ARIEM) Reduction in Musculoskeletal Injury (ARMI) study, focused on reducing musculoskeletal injuries in the military. Under the guidance of a mentor, you will help our team support the primary objective to identify physiological mechanisms of musculoskeletal injury in military populations.

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 have the opportunity to participate in all aspects of the research processes including data collection, laboratory analysis, daily iteration with research volunteers, data reduction, literature review and potentially project coordination with respect to ongoing lines of research.

What is the anticipated start date?

The USARIEM is ready to make appointments effective July 1, 2021. 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 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:

- Health Insurance Supplement. *Participants are eligible to purchase health insurance through ORISE.*
- Relocation Allowance
- Training and Travel Allowance

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.

About USARIEM

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The U.S. Army Research Institute of Environmental Medicine (USARIEM) conducts biomedical research to improve and sustain Warfighter health and performance under all conditions. USARIEM was established in 1961 as a research laboratory under the U.S. Army Medical Research and Development Command (now USAMRMC). USARIEM is internationally 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 five divisions: Biophysics and Biomedical Modeling, 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, material development support, physiological monitoring strategies and predictive algorithms, and Health Hazard Assessments. For more information about the USARIEM, please visit <https://www.usariem.army.mil/>.

Qualifications

Bachelors degree in biological sciences is required for participation, Masters degree is preferred. Good laboratory skills are a must. Experience conducting basic biochemical assays such as enzyme-linked immunoassay (ELISA), colorimetric reactions, polymerase chain reaction (PCR), and basic cell culture are required. Knowledge of biological sample processing (serum, plasma, urine) procedures and biosafety precautions are needed for this opportunity. Phlebotomy experience is a plus. Good computer skills and experience with word, excel, and statistical knowledge are necessary. Experience conducting human performance research or degree in exercise science or related field will be considered. Periodic travel to field locations for data collection will be required.

A complete application consists of:


- 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

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 USAMRMC-RIEM-2021-0017 in the subject line of the email.

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Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Master's Degree received within the last 60 months or anticipated to be received by 12/31/2021 12:00:00 AM.
- **Discipline(s):**
 - **Life Health and Medical Sciences** (46 )
- **Age:** Must be 18 years of age