

**Opportunity Title:** Postdoctoral Research Opportunity in Skeletal Physiology/Musculoskeletal Injury Prevention

**Opportunity Reference Code:** USAMRMC-RIEM-2020-0008

**Organization** U.S. Department of Defense (DOD)

**Reference Code** USAMRMC-RIEM-2020-0008

**How to Apply** Components of the online application are as follows:

- Profile Information
- 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.](#)
- Three (3) recommendations required.

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.

If you have questions, send an email to [Army-MRMC@orise.ora.gov](mailto:Army-MRMC@orise.ora.gov). Please list the reference code of this opportunity in the subject line of the email.

All documents must be in English or include an official English translation.

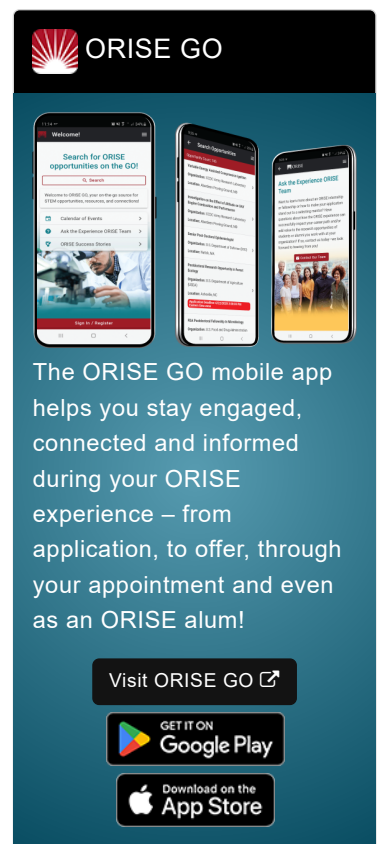
**Description** The U.S. Army Research Institute of Environmental Medicine (USARIEM), a subordinate laboratory of the U.S. Army Medical Research and Materiel Command (USAMRMC), is an internationally recognized center of excellence for Warfighter performance science and its useful applications. The Institute functions as a world-class laboratory for environmental medicine, physiology, performance and nutrition research. It features integrated cellular, tissue, & human research programs.

The Military Performance Division is offering a post-doctoral fellowship studying risk factors for musculoskeletal injury, particularly bone stress injury/stress fracture. This opportunity will focus on the impact of reproductive hormones (Estrogen, Progesterone, Luteinizing Hormone and Follicle Stimulating Hormone) as well as the relationship between biomarkers of oxidative stress on bone adaptation by high resolution peripheral quantitative computed tomography (HR-pQCT) and musculoskeletal injury during Basic Combat Training. The interests of the lab are to identify risk factors for injury among Soldiers, develop interventions for injury prevention, and ultimately improve Warfighter health and performance. As a USARIEM participant, you will have an opportunity to assist with developing projects and executing projects as well as gain extensive experience and training in study development and organization, bone imaging, collection and analysis of biological specimens, and dissemination of findings through scientific publications and presentations.

This opportunity will allow you to gain clinical research skills in study design, study implementation, data cleaning, data organization, statistical analyses, data dissemination and research experience in a military environment. During this appointment you will also be provided a chance to gain authorship on scholarly articles with the potential to attend and present scientific findings at local and national meetings.

#### **Participant Benefits**

Participants will receive a stipend to be determined by USAMRMC-RIEM. Stipends are typically



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based on the 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.

**Qualifications** Candidates must have a Ph.D. degree and some experience in exercise science/kinesiology/biology or a related field with a preference for prior experience in hormone analysis, bone imaging and/or human physiology. Candidates must also be self-motivated and able to function well within a collaborative laboratory environment. Travel to the data collection site is required.

A Postdoctoral Research Fellow at USARIEM is a temporary appointment intended to provide training and education in research. Individuals will train in the research program of a USARIEM principal investigator. Qualified individuals will demonstrate the potential for research as evidenced by their training and peer-reviewed publications. Please attach the following required documents at the time of application:

- Current curriculum vitae and bibliography
- Three letters of recommendation

**Eligibility Requirements**

- **Citizenship:** U.S. Citizen Only
- **Degree:** Doctoral Degree received within the last 60 months or anticipated to be received by 8/31/2021 11:59:00 PM.
- **Discipline(s):**
  - **Chemistry and Materials Sciences** ([12](#))
  - **Environmental and Marine Sciences** ([11](#))
  - **Life Health and Medical Sciences** ([33](#))
- **Age:** Must be 18 years of age