

Opportunity Title: Biophysics and Biomedical Modeling Research Support
Opportunity Reference Code: USAMRMC-RIEM-2020-2838914263R

Organization U.S. Department of Defense (DOD)
Reference Code USAMRMC-RIEM-2020-2838914263R
How to Apply Components of the online application are as follows:

- Profile Information
- Educational and Employment History
- Essay Questions (goals, experiences, and skills relevant to the opportunity)
- Resume (PDF)
- Transcripts/Academic Records
- References

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.

If you have questions, send an email to ARMY-MRMC@ORISE.ORAU.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), 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).

As an ORISE participant, you will gain research experience by participating in project coordination, execution, data analysis, and report generation on various environmental research protocols. Under the guidance of a mentor, you will have an opportunity to assist in the data reduction and statistical analysis of an experiment assessing the efficacy of 14% oxygen breathing for accelerating jet lag recovery, participating in the analysis of cortisol and melatonin assays, jet lag questionnaires, sleep quality and quantity, and core body temperature data. In addition, you will support the research team in protocol development for a field project evaluating an acute mountain sickness alert algorithm and then assist in protocol execution, data analysis, and presentation of the study results. In support of your career development, you will gain additional knowledge and understanding in the advancement of software decision aids and personal status monitors for capturing real-time physiological state.

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.

Participant Benefits



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Participants will receive a stipend to be determined by USARIEM. Stipends are typically 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

Bachelor's or Master's degree in exercise physiology, kinesiology, allied health, or a related field.

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Bachelor's Degree or Master's Degree received within the last 60 months or currently pursuing.
- **Academic Level(s):** Graduate Students, Post-Bachelor's, or Post-Master's.
- **Discipline(s):**
 - **Communications and Graphics Design** (1 )
 - **Environmental and Marine Sciences** (1 )
 - **Life Health and Medical Sciences** (45 )
 - **Other Non-Science & Engineering** (5 )
 - **Social and Behavioral Sciences** (28 )