

Opportunity Title: Postdoctoral Human Physiology and Exercise Science Fellowship

Opportunity Reference Code: USAMRDC-RIEM-2024-0014

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 U.S. Army Research Institute of Environmental Medicine (USARIEM), a subordinate laboratory of the U.S. Army Medical Research and Development Command (USAMRDC), 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. Fellowship will be in the Military Performance Division, whose goal is to conduct research to enhance the performance of military occupational tasks and to prevent performance decrements due to physical overload and musculoskeletal injuries.

What will I be doing?

As an ORISE participant you will join a community of scientists and researchers and be involved in two to four of the following research projects:

- Prediction of acute mountain sickness at altitude.
- Development of novel sensors to detect oxygen saturation.
- Prediction of heat stroke.
- Genomic prediction of altitude, heat and cold injuries.

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. These include, but are not limited to:

- Project management.
- Data collection, compilation and analysis of physiologic and biologic data.
- Institutional Review Board procedures.
- Team Leadership.
- Collaboration with a wide range of individuals within the Institute.
- Grant writing.
- Development of independent research program.

Where will I be located?

Natick, Massachusetts. Some travel may be required.

What is the anticipated start date?

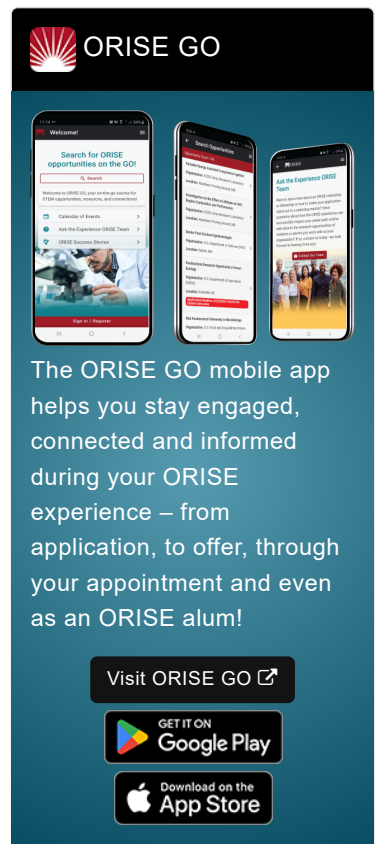
The USARIEM is ready to make appointments effective as soon as possible. Exact start dates will be determined at the time of selection and in coordination with the selected candidate.

Appointment Length

Appointments are initially for one year with the option to extend the appointment for up to four additional years.

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



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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

As a participant, 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

The U.S. Army Research Institute of Environmental Medicine (USARIEM), in Natick, Massachusetts 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 must have or be close to completing a Doctoral Degree in the area of Exercise Science, Exercise Physiology, Biomedical Engineering, Biostatistics or Epidemiology.

Highly competitive applicants will have the following knowledge, skills and experience:

- General understanding of human physiology and exercise science.
- Statistical analysis programs such as SPSS or SAS.
- Data coding languages such as Python or Matlab.
- Clinical or research experience working with test volunteers or patients.
- Team-leadership skills.
- Excellent oral and written presentation skills.
- SAS certification.
- Grant writing.
- Previous experience in development of research programs.

The successful applicant will be required to comply with Environmental, Safety and Health (ES&H) requirements of the host facility, including but not limited to COVID-19 requirements (e.g. facial

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covering, physical distancing, testing, vaccination).

Application Requirements

A complete application consists of the following:

- Zintellect Profile
- Educational and Employment History
- CV and Cover Letter describing achievements, research interests, career goals, reason of interest, and suitability for this appointment (maximum two pages) - please upload to the resume section on the application
- 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 orise-army-mrdc-riem@orise.orau.gov. Please list the reference code of this opportunity USAMRDC-RIEM-2024-0014 in the email's subject line. 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:** Doctoral Degree received within the last 60 months or anticipated to be received by 12/31/2024 12:00:00 AM.
 - **Overall GPA:** 3.00
 - **Discipline(s):**
 - **Communications and Graphics Design** ([2](#) 👁)
 - **Engineering** ([7](#) 👁)
 - **Life Health and Medical Sciences** ([14](#) 👁)
 - **Age:** Must be 18 years of age