

Opportunity Title: USARIEM Biomedical Engineer Fellowship

Opportunity Reference Code: USAMRDC-RIEM-2023-0005

Organization U.S. Department of Defense (DOD)

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How to Apply Click on *Apply* now to start your application.

Description The United States Army Research Institute of Environmental Medicine (USARIEM) is offering a biomedical research fellowship to a BS- level or MS-level **Biomedical Engineering or Mechanical Engineering** within USARIEM's Thermal and Mountain Medicine Division.

What will I be doing, and why should I apply?

Under the guidance of a mentor, you will learn and gain hands-on experience in biomedical research, modeling, finite element method, data analysis, biophysics, and physiology.

Where will I be located?

Natick, Massachusetts

What is the anticipated start date?

USARIEM is ready to make appointments as soon as possible. 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 fellowships will be filled as qualified candidates are identified.

What is the appointment length?

Appointments are initially for one year, with the option to extend the appointment for up to four additional years, contingent upon project needs and funding availability.

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:

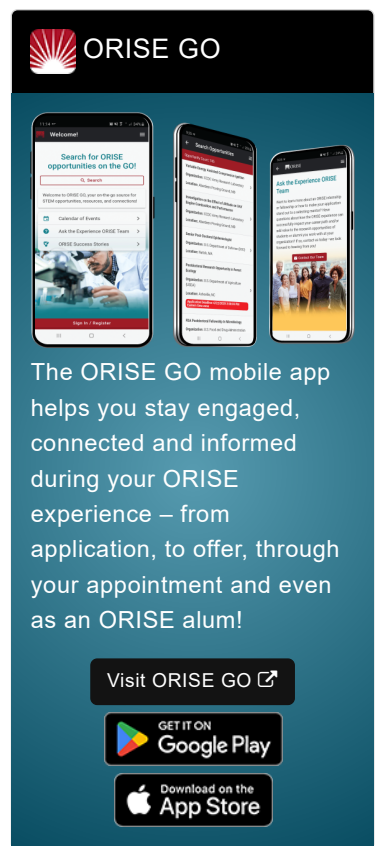
- Health Insurance Supplement (Participants are eligible to purchase health insurance through ORISE)
- Relocation Allowance
- Training and Travel Allowance

About USARIEM

The United States 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. It features integrated cellular, tissue, and human research programs.

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



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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 have a bachelor's or master's degree (or will have completed their degree by summer 2023) in Biomedical Engineering, Mechanical Engineering, Applied Math or Science, or a similar discipline. The degree must have been received within five years of the appointment start date.

Highly competitive applicants will have some experience with the following:

- Thermal aspects of the interaction between humans, clothing, and the environment.
- Knowledge of fundamental physics and engineering principles with an emphasis on heat transfer and thermodynamics.
- Familiarity with the finite element method and software is a plus.
- Computing skills (experience with R, C#, Java, and/or MATLAB preferred).

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

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)
- Current curriculum vitae and bibliography (please upload them in the resume section of 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: Your application will be considered incomplete and will not be reviewed until one recommendation is submitted. We encourage you to contact your recommender(s) as soon as you start your application to ensure they are able to complete the recommendation form and to let them know to expect a message from Zintellect.
Recommenders will be asked to rate your scientific capabilities, personal characteristics and describe how they know you. You can always log back into your Zintellect account and check the status of your application.

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.orau.gov. Please list the reference code of this opportunity in the subject line of the email. 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**
- **Citizenship:** U.S. Citizen Only
- Requirements**
- **Degree:** Bachelor's Degree or Master's Degree received within the last 60 months or anticipated to be received by 8/31/2023 12:00:00 AM.
 - **Discipline(s):**
 - **Chemistry and Materials Sciences** ([12](#) )
 - **Communications and Graphics Design** ([2](#) )
 - **Computer, Information, and Data Sciences** ([17](#) )
 - **Earth and Geosciences** ([21](#) )
 - **Engineering** ([27](#) )
 - **Environmental and Marine Sciences** ([14](#) )
 - **Life Health and Medical Sciences** ([48](#) )
 - **Mathematics and Statistics** ([11](#) )
 - **Physics** ([16](#) )
 - **Science & Engineering-related** ([2](#) )
 - **Social and Behavioral Sciences** ([28](#) )
 - **Age:** Must be 18 years of age