Opportunity Title: EACE R&S Applied Biomechanics Fellowship
Opportunity Reference Code: EACE-2023-0008

Organization U.S. Department of Defense (DOD)

Reference Code EACE-2023-0008

How to Apply

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

Description The Extremity Trauma & Amputation Center of Excellence (EACE) is offering a fellowship at the San Diego, California facility.

What will I be doing?

As an Oak Ridge Institute for Science and Education (ORISE) participant, you will join a community of scientists and researchers in an effort to develop and integrate biomechanical outcomes with other clinical initiatives aimed at improving the quality of care and well-being of military Service members with extremity amputations.

Why should I apply?

Under the guidance of mentor(s), you will gain hands-on experience to complement your education and support your academic and professional goals. Along the way, you will engage in activities and research in several area. These, include, but are not limited to:

- Process and analyze data from various biomechanical sources including motion capture systems and wearable sensors
- Engage with large-scale, longitudinal analyses of biomechanical data following limb trauma and amputation in the military
- Participate in efforts to develop novel approaches for processing biomechanical data collected using wearables from patients with limb amputations
- See an early-stage project from initiation to analysis to knowledge product generation in a short period of time
- Contribute to grant submissions to add to your knowledge of pursuing funding and becoming an independent researcher.

What is the appointment length?

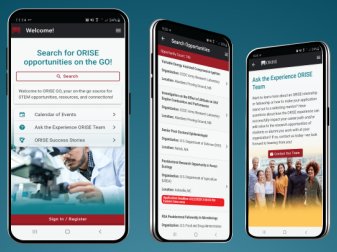
EACE is prepared to begin this fellowship pending review of applications and the selection of a candidate. This appointment is a twelve-month research appointment, with the possibility to be renewed for additional research periods. Appointments may be extended depending on funding availability, project assignment, program rules, and availability of the participant. This research fellowship will be located at the Naval Medical Center San Diego (NMCSD).

What are the benefits?

You will receive a stipend to be determined by EACE. 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 EACE

The Extremity Trauma & Amputation Center of Excellence (EACE) is a unique organization within the DoD consisting of teams of researchers embedded at the point of care within multiple Military Treatment Facilities across the nation. In line with the congressionally directed mission of the EACE, the research efforts undertaken focus on the mitigation, treatment and rehabilitation of

OAK RIDGE INSTITUTE FOR SCIENCE AND EDUCATION
ORISE GO

The ORISE GO mobile app helps you stay engaged, connected and informed during your ORISE experience – from application, to offer, through your appointment and even as an ORISE alum!
Visit ORISE GO
GET IT ON Google Play
Download on the App Store

Opportunity Title: EACE R&S Applied Biomechanics Fellowship
Opportunity Reference Code: EACE-2023-0008

traumatic extremity injuries and amputations with a specific focus on translating their findings into clinical practice to improve the care of injured Service Members and Veterans. To learn more, visit: https://www.health.mil/About-MHS/OASDHA/HSPO/EACE.

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 should hold or be currently pursuing a Master's Degree or PhD in Mechanical Engineering, Biomedical Engineering, or a related discipline

Preferred Knowledge, Skills, and Abilities:

- Comfortable with data processing and visualization using MATLAB or a related program
- Experience with statistics and experimental test matrix design as well as hands-on experience utilizing wearable sensors and analyzing/interpreting data
- Knowledge of anatomy and physiology in the context of biomechanics and human performance
- Self-motivated, detail-oriented, organized, and enjoy working in a team environment with associated strong communication skills
- Highly Preferred Experience: 0-2+ years of experience in the area of biomechanics or human performance.

Security Clearance:

You must have or be eligible to obtain and maintain a security clearance for the duration of your appointment. It is expected that after completing the necessary application for clearance a fitness determination will allow participation to begin with unclassified material, while awaiting a clearance.

Application Requirements

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 - Please upload a copy of a transcript for your current or most recent degree program that meets the disciplinary qualifications of the opportunity. 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

Opportunity Title: EACE R&S Applied Biomechanics Fellowship
Opportunity Reference Code: EACE-2023-0008

to rate your scientific capabilities, personal characteristics, and describe how they know you. You can always log back in to your Zintellect account and check the status of your application.

If you have questions, send an email to STEM-WORKFORCE@orise.orau.gov. Please list the reference code of this opportunity [EACE-2023-0008] 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.

Connect with ORISE...on the GO! Download the new ORISE GO mobile app in the Apple App Store or Google Play Store to help you stay engaged, connected, and informed during your ORISE experience and beyond!

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Master's Degree or Doctoral Degree received within the last 60 months or currently pursuing.
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (12 👁)
  - **Communications and Graphics Design** (2 👁)
  - **Computer, Information, and Data Sciences** (16 👁)
  - **Earth and Geosciences** (21 👁)
  - **Engineering** (27 👁)
  - **Environmental and Marine Sciences** (14 👁)
  - **Life Health and Medical Sciences** (45 👁)
  - **Mathematics and Statistics** (10 👁)
  - **Other Non-Science & Engineering** (2 👁)
  - **Physics** (16 👁)
  - **Science & Engineering-related** (1 👁)
  - **Social and Behavioral Sciences** (27 👁)