

**Opportunity Title:** EACE Musculoskeletal Rehabilitation Visiting Faculty Fellowship  
**Opportunity Reference Code:** EACE-2021-0002FR

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

**Reference Code** EACE-2021-0002FR

**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 - 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.](#)
- Recommendation(s) 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 [STEM-WORKFORCE@orise.oraui.gov](mailto:STEM-WORKFORCE@orise.oraui.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.

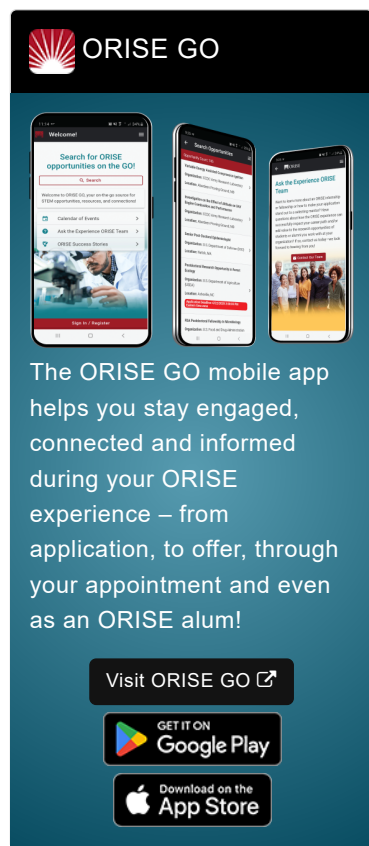
**Description** The Extremity Trauma and Amputation Center of Excellence (EACE) is the leading advocate for research and treatment of Department of Defense (DoD) and Department of Veterans Affairs (VA) patients with extremity trauma and amputation. The EACE leads efforts to enhance collaboration between the DoD and the VA extremity trauma and amputation care providers and conduct scientific research to minimize the effects of traumatic injuries and improve clinical outcomes (<https://www.health.mil/About-MHS/OASDHA/HSPO/EACE>). This visiting faculty fellow will be housed jointly between the Naval Medical Center San Diego (NMCSD) and the University of California - San Diego's (UCSD) Active, Responsive, Multifunctional, and Ordered-materials Research (ARMOR) laboratory (Caution-<https://armor.eng.ucsd.edu/>).

The selected candidate will collaborate among a diverse group of researchers and clinicians and will have the opportunity to contribute to technology development that will improve the clinical care of patients with musculoskeletal trauma. The primary research program to be undertaken involves skills in mechanical design, biomechanical modeling and simulation, design optimization, and additive manufacturing. The candidate will conduct fundamental research, advance innovative ideas and technologies, and prototype new devices for managing musculoskeletal injury and extremity trauma. The candidate will also lead hands-on experiments and computational simulations to support prototype evaluation. The research will span a broad spectrum of technology readiness levels, with both civilian and military applications.

#### Appointment Length


This appointment is a five 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 **EACE**. 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.

*Desired Appointment Start Date: 01/03/2022*

**Qualifications** Requirements:

- U.S. Citizenship, ability to obtain Secret clearance through background checks
- Full time faculty member at an accredited institution
- Minimum Educational Requirements: PhD from an accredited University in Engineering, Computer Science, Robotics, Mechatronics, or a closely related field.
- Experience with computer optimization, materials design and manufacturing, mechanics, multi-physics numerical simulations, 3D printing, electrical circuitry, sensor technologies, medical imaging and optics, and experience with human subjects testing.
- Candidates with background in both materials engineering and tomographic methods are preferred.
- Physical Capabilities: Ability to participate in a variety of settings including: laboratory, machine shop, hospital, computer desk
- Excellent organizational, time management, and communication skills (oral and written)
- Intellectual independence and initiative.
- Ability to collaborate as part of an interdisciplinary team is essential

**Eligibility Requirements**

- **Citizenship:** U.S. Citizen Only
- **Degree:** Doctoral Degree received within the last 350 month(s).
- **Overall GPA:** 3.40
- **Discipline(s):**
  - **Chemistry and Materials Sciences** ([12](#) )
  - **Communications and Graphics Design** ([1](#) )
  - **Engineering** ([27](#) )
  - **Life Health and Medical Sciences** ([29](#) )
  - **Other Non-Science & Engineering** ([2](#) )
  - **Physics** ([16](#) )
  - **Science & Engineering-related** ([1](#) )
  - **Social and Behavioral Sciences** ([27](#) )
- **Age:** Must be 18 years of age
- **Veteran Status:** Veterans Preference, degree received within the last 580 month(s).

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