Powered by ORAU
Opportunity Title: Advanced Biomedical Engineer
Opportunity Reference Code: MRMC-WRAIR-2020-0001

Organization
U.S. Department of Defense (DOD)
Reference Code
MRMC-WRAIR-2020-0001
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 - Click here for detailed information about acceptable transcripts
- 1 Recommendations

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 Walter Reed Army Institute of Research (WRAIR) aims to conduct biomedical research that is responsive to Department of Defense and U.S. Army requirements and delivers lifesaving products including knowledge, technology and medical material that sustain the combat effectiveness of the warfighter. WRAIR provides unique research capabilities and innovative medical solutions to a range of Force Health Protection and Readiness challenges currently facing U.S. Service Members, along with threats anticipated during future operations. These research opportunities include ongoing efforts to identify and treat traumatic brain injury as well as to understand and mitigate the deleterious effects of repeated exposures to blast.

This research opportunity is intended to help develop knowledge and skills aligned with the immediate research objectives of our blast overpressure medical research program. Working with a mentor, the participant will collaboratively participate within a research team assessing the biomechanical underpinnings of blast insults causing injuries to vital organs including the lung and brain. In this capacity, the participant will directly contribute to the design of experimental studies and participate in the collection, analysis, interpretation, and reporting of data generated with both small and large animal models of blast injury. These studies are critical to the experimental development of injury criteria which will form the basis for developing standardized guidelines and test methodologies to study the effectiveness of PPE against primary blast. It is fully anticipated that the multi-faceted experiences associated with this research project will provide technical educational growth along with enhanced career opportunities. Injuries and impairments resulting from exposures to blast or repeated blasts are high visibility concerns to the US military about which little is currently defined. This research project will promote valuable educational growth with the development of a well-rounded research background spanning blast physics, physiology, neurobiology, and cognitive performance. In conjunction with this technical educational growth, the project is a tremendous opportunity to, as a hands-on researcher, discover and document the etiology of Warfighter-relevant blast perturbations, formulating and testing data-driven hypotheses which in turn can yield continued career opportunities as a senior researcher at a DOD lab or university. Additionally, through the interactions with collaborators, stakeholders and policy-makers in the DOD, the visibility associated with this opportunity provides an opportunity for the participant to be distinguished as an authority on blast and blast injuries, which can additionally translate into career opportunities.

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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

Participants will receive a stipend to be determined by WRAIR. 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

The applicant must possess a doctoral degree in biomedical engineer along with preference given for hands-on experience working with laboratory animal models of neurotrauma, blast shock wave assessments, and blunt trauma injuries.

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Doctoral Degree received within the last 60 month(s).
- **Discipline(s):**
  - **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-S&E** (2)
  - **Other Physical Sciences** (12)
  - **Other S&E-Related** (1)
  - **Physics** (16)
  - **Social and Behavioral Sciences** (27)

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