

**Opportunity Title:** Post Doctoral Biomedical Support Fellow

**Opportunity Reference Code:** MRMC-WRAIR-2020-0013R

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

**Reference Code** MRMC-WRAIR-2020-0013R

**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 Recommendation

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 [ARMY-MRMC@ORISE.ORAU.gov](mailto: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 the 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 and 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 harmful effects of repeated exposures to blast.

This research opportunity is intended to provide the opportunity to develop subject matter expertise aligned with the immediate research objectives of our blast overpressure medical research program. Under the guidance of a mentor, the participant will collaboratively participate within a research team assessing the biomedical and biological mechanisms of blast injury using in vitro and in vivo models as well as biological samples collected from human patients and volunteers. In addition, the participant will have the opportunity to perform neurobehavioral assessments and design, develop, interpret, analyze, and implement the application of biological processes pre/post-blast insults. 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 therapeutic agents and utility of biofluid biomarkers in pre/post-blast animal models, human volunteers and victims of blast exposure.

It is fully anticipated that the multi-faceted experiences associated with this research project will provide professional 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 professional educational growth, the project is a tremendous opportunity to experience first-hand the



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formulation and testing of data-driven hypotheses. Collectively, these experiences can translate into opportunities for furthering a research-based career.

#### **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 doctorate degree in biomedical sciences. Hands-on experience working with in vivo research; animal handling; injecting mice by oral, intraperitoneal, subcutaneous, and intravenous route; Western Blot; ELISA; PCR and RT-PCR; confocal microscopy; Immunofluorescence (IF) assay; genomic DNA/RNA extraction and quantification; agarose gel electrophoresis; and fluorescence spectrophotometer.

- Eligibility Requirements**
- **Degree:** Doctoral Degree received within the last 60 month(s).
  - **Discipline(s):**
    - **Environmental and Marine Sciences** ([1](#))
    - **Life Health and Medical Sciences** ([41](#))