Opportunity Title: Biochemistry Internship
Opportunity Reference Code: MRMC-WRAIR-2020-0011

Organization U.S. Department of Defense (DOD)

Reference Code MRMC-WRAIR-2020-0011

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 to deliver lifesaving products including knowledge, technology and medical material that sustain the combat effectiveness of the warfighter. WRAIR carries out research to develop infectious disease countermeasures and to benefit brain health through studies to enhance our understanding of sleep, traumatic brain injury prevention/treatment and psychological resilience. https://www.wrair.army.mil/

A fellowship opportunity is available in the Bacterial Disease Branch in the Wound Infections Department (WID) at Walter Reed Army Institute of Research (WRAIR). WID's mission is to defeat combat-related wound infections caused by multi-drug resistant bacteria. The team of WID scientists conducts translational research in the areas of bacterial pathogenesis, novel therapeutics, and diagnostics. The ORISE fellow will significantly contribute to ongoing efforts involving in vitro screening methods to include protein expression and purification, enzyme assays, and x-ray crystallography methods for therapeutic development targeting the host immune system and bacteria. Additionally, the fellow will assist with basic in vitro assays under the guidance of senior technicians and scientists. The research participant will also support in vitro studies by maintaining laboratory supplies and keeping an accurate laboratory notebook.

The selected fellow will be integrated with a research team focused on the development of novel therapeutics to combat multi-drug resistant organisms. Within the collaborative team environment, the fellow will learn, or be exposed to, all aspects of the drug development process from early discover through pre-clinical trials.

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

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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

BS, MS, or PhD in Biochemistry, Chemistry, Biology, Physics or Biophysics; applicable experience may be substituted for education Preferred experience: cloning, protein expression and purification, enzyme assays, and x-ray crystallography; bacterial microbiological methods – inocula preparation, dilution series preparation, pipetting, and molecular characterization of bacterial contents Required experience: fffective communication (verbal and written), presentation and interpersonal skills

Eligibility Requirements

- **Degree:** Bachelor's Degree, Master's Degree, or Doctoral Degree received within the last 60 months or currently pursuing.
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (12 👁)
  - **Environmental and Marine Sciences** (1 👁)
  - **Life Health and Medical Sciences** (45 👁)
  - **Mathematics and Statistics** (10 👁)
  - **Physics** (16 👁)