

**Opportunity Title:** Post-Master's Bioinformatics Research in Prokaryotic Genetics

**Opportunity Reference Code:** MRMC-WRAIR-2019-0001

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

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**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](#)
- Recommendations

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 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. For more information about WRAIR, please visit: <https://www.wrair.army.mil/>

The participant will learn techniques required for the analysis of the genomes of multidrug resistant bacterial species, to include *Enterococcus* spp., *Staphylococcus* spp., *Klebsiella* spp., *Acinetobacter* spp., *Pseudomonas* spp., *Enterobacter* spp., and *Escherichia coli*. Multidrug resistant organisms in deployed environments can compromise military service members' medical readiness. The research project designed for the participant selected will be centered around strategic implementation of several bioinformatics tools to ascertain the global dissemination of these antibiotic resistant bacteria. Global surveillance of these organisms has been implemented across the entire military healthcare system in the US and abroad. With sufficient learning and advancement, the participant will be challenged to develop new and innovative methods for analyzing bacterial DNA.

Under the guidance of a mentor, the ORISE participant will establish fundamental understanding of translational, military-relevant scientific research. The fellow will be highly encouraged to begin expanding their network of scientific colleagues and seek collaborations within the Department of Defense, academia, and commercial companies. The participant will gain leadership experience through team interactions with contractors, Department of US Army civilians, and military personnel. The participant will have the opportunity to make significant contributions to this emerging field while taking part in one of the most comprehensive sequencing laboratories in the USA.

#### **Appointment Length**

This appointment is a twelve month research appointment, with the possibility to be renewed for additional research periods.



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**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** WRAIR is seeking candidates that have completed a master's degree in bioinformatics or a related discipline within the past five years. A concentration in prokaryotic genetics is preferred.

U.S. citizenship is required

- Eligibility Requirements**

- **Citizenship:** U.S. Citizen Only
  - **Degree:** Master's Degree received within the last 60 months or currently pursuing.
  - **Overall GPA:** 2.50
  - **Discipline(s):**
    - **Chemistry and Materials Sciences** ([3](#) )
    - **Computer, Information, and Data Sciences** ([1](#) )
    - **Engineering** ([2](#) )
    - **Life Health and Medical Sciences** ([18](#) )
    - **Mathematics and Statistics** ([1](#) )
  - **Age:** Must be 18 years of age