

Opportunity Title: WRAIR Integrative Systems Biology for Military Health Internship/Fellowship
Opportunity Reference Code: MRDC-WRAIR-2025-0024

Organization U.S. Department of Defense (DOD)

Reference Code MRDC-WRAIR-2025-0024

How to Apply Click on *Apply* at the bottom of the opportunity to start your application.

Description The Department of Defense (DoD) is offering Bachelor's, Master's, and Doctoral internships or fellowships at the U.S. Army Medical Research and Development Command - Walter Reed Army Institute of Research (USAMRDC WRAIR). This research opportunity is within the Center for Military Psychiatry and Neuroscience (CMPN), Integrated Systems Biology Branch whose aim is to apply robust and precise molecular-based solutions for military-relevant health performance, resilience and readiness.

Why should I apply?

Under the guidance of a mentor, you will have the opportunity to apply integrative biology approaches to understanding the etiology of, and find solutions for, military-relevant health issues. Integrative biology research and analyses are designed to understand, compare, and combine animal studies and human studies, computational simulations, and biologics (i.e., products derived from living organisms) acquired from human samples. Medical Readiness Systems Biology's (MRSB) main research focus is the identification and characterization of biomarkers for PTSD, pain and host responses to pathogens and radiation.

This research opportunity includes the following learning objectives:

- *Learning whole genome sequencing*
- *Conducting metabolomic analysis*
- *Gaining experience in Ingenuity Pathway Analysis*
- *Conducting analysis of omics data using commercial and publicly available analysis tools for proteomic, genomic and metabolomic*
- *Learning microbiome analysis using sequencing*
- *Understanding new animal models for austere environments*

Where will I be located?

Silver Spring, Maryland

What is the anticipated start date?

The WRAIR is ready to make appointments immediately. Exact start dates will be determined at the time of selection and in coordination with the selected candidate. Applications are reviewed on an ongoing basis, and internships or fellowships will be filled as qualified candidates are identified.

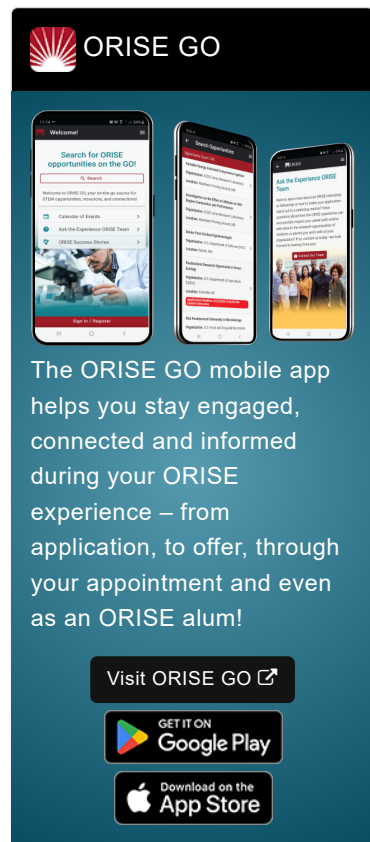
What is the appointment length?

Appointments are initially for one year with the option to extend the appointment for up to four additional years, contingent upon project needs and funding availability.

What are the provisions?

You will receive a stipend to be determined by WRAIR. Stipends are typically based on a participant's academic standing, discipline, experience, and research facility location. Other provisions may include the following:

- Health Insurance Supplement (*Participants are eligible to purchase health insurance through*



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- Relocation Allowance
- Training and Travel Allowance

About WRAIR

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. For more information about WRAIR, please visit [Army Home](#).

About ORISE

This program, administered by Oak Ridge Associated Universities (ORAU) through its contract with the U.S. Department of Energy (DOE) to manage the Oak Ridge Institute for Science and Education (ORISE), was established through an interagency agreement between DOE and DoD. Participants do not enter into an employee/employer relationship with ORISE, ORAU, DoD or any other office or agency. Instead, you will be affiliated with ORISE for the administration of the appointment through the ORISE appointment letter and Terms of Appointment. Proof of health insurance is required for participation in this program. Health insurance can be obtained through ORISE. For more information, visit the [ORISE Research Participation Program at the U.S. Department of Defense](#).

Qualifications The qualified candidate will have a Bachelors, Masters or Doctoral degree in Bioinformatics, Neuroscience, Genetics or other eligible discipline. Degree must have been received within five years of the appointment start date.

Highly competitive applicants will have education and/or experience in one or more of the following:

- Animal models
- Biomarkers
- RNA and DNA isolation
- Data analysis and mining for Military relevant health

Application Requirements

A complete application consists of:

- Zintellect Profile
- Educational and Employment History
- Essay Questions (goals, experiences, and skills relevant to the opportunity)
- Resume (PDF)
- Transcripts/Academic Records - Please upload a copy of a transcript for your current or most recent degree program that meets the disciplinary qualifications of the opportunity. [Click here for detailed information about acceptable transcripts](#).

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- Two Recommendations. We encourage you to contact your recommenders as soon as you start your application to ensure they are able to complete the recommendation form and to let them know to expect a message from Zintellect. Recommenders will be asked to rate your scientific capabilities, personal characteristics, and describe how they know you. You can always log back in to your Zintellect account and check the status of your application.

If you have questions, send an email to ARMY-MRMC@orise.orau.gov. Please list the reference code of this opportunity [MRDC-WRAIR-2025-0024] in the subject line of the email. Please understand that ORISE does not review applications or select applicants; selections are made by the sponsoring agency identified on this opportunity. All application materials should be submitted via the "Apply" button at the bottom of this opportunity listing. Please do not send application materials to the email address above.

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Point of Contact [Brittany](#)

- Eligibility**
- Requirements**
- **Citizenship:** LPR or U.S. Citizen
 - **Degree:** Bachelor's Degree, Master's Degree, or Doctoral Degree received within the last 60 month(s).
 - **Discipline(s):**
 - **Life Health and Medical Sciences** ([8](#) )
 - **Social and Behavioral Sciences** ([2](#) )