

**Opportunity Title:** USAMRIID Therapeutics Fellowship - Master's level

**Opportunity Reference Code:** MRDC-USAMRIID-2024-0003

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

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

**Description** The Department of Defense (DoD) is offering a post-graduate fellowship at the U.S. Army Medical Research and Development Command - Medical Research Institute of Infectious Diseases (USAMRDC-MRIID) located in Frederick, Maryland.

**What will I be doing?**

As an ORISE participant, you will join a community of scientists to generate high-throughput phenotypic screening assays by integrating different throughput automation instrumentation for therapeutic treatment and infection. Followed by the application of immunofluorescence-based method for imaging, imaging analysis and data analysis to identify potential hit therapeutics. You would learn how to use high-throughput automation and imaging instruments and will gain a knowledge of the cellular basis of viral or bacterial infection and the response of the therapeutics presence of infection. The overall goal is to develop tools and methods for large-scale, high-throughput phenotypic screening using Echo and Biomek and the Opera Phenix for automated imaging. During your ORISE appointment, you will support TD's mission to successfully develop different screening assays and identify small molecule therapeutics.

**Why should I apply?**

Under the guidance of a mentor, you will gain hands-on experience to complement your education and support your academic and professional goals. Along the way, you will engage in activities and research in several areas. These include but are not limited to:

- Learning how to develop and/or optimize high-throughput phenotypic screening assays and apply these assays to identify and characterize small molecules with antiviral or antibacterial properties and understand the mechanism of action of the identified hits.
- Developing skills in high-throughput image and data analysis and therapeutic discovery.

**Where will I be located?** Frederick, Maryland

**What is the anticipated start date?**

The USAMRIID 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 fellowships will be filled as qualified candidates are identified.

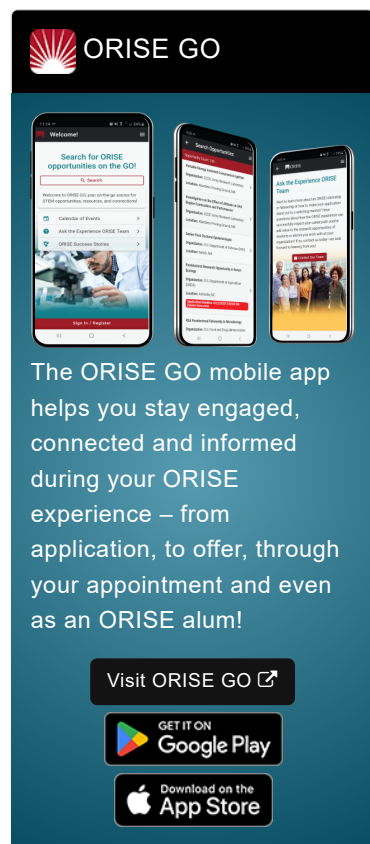
**What is the appointment length?**

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.

**What are the benefits?**

You will receive a stipend to be determined by USAMRIID. Stipends are typically based on a 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*



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*ORISE)*

- Relocation Allowance
- Training and Travel Allowance

#### About USAMRIID

USAMRIID's reputation has been built over the years by numerous scientists and technical staff working to protect both military personnel and civilians from the threat of infectious diseases. The Institute participates in support of emerging disease investigations, working alongside colleagues from the Centers for Disease Control and Prevention and the World Health Organization. As a reference laboratory for the Department of Defense, USAMRIID sets the standard for identification of biological agents. The Institute's workforce represents some of the top infectious disease and biological defense experts in the Nation—indeed, in the world.

#### 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 is a U.S. citizen with a master's degree in biochemistry, biology, cellular or molecular biology, infectious diseases and zoonoses, microbiology or closely related discipline. Degree should be received within 48 months of application.

- U.S. citizenship is required
- Minimum GPA of 3.80

Highly qualified candidates should be familiar with the basic concepts of drug discovery, have experience conducting some research in the area of target or drug discovery, and be knowledgeable in the basic principles of chemistry and chemical libraries, and have some familiarity with automation instruments.

#### 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 - For this opportunity, an unofficial transcript or copy of the student academic records printed by the applicant or by academic advisors from internal institution systems may be submitted. [Click here for detailed information about acceptable transcripts](#).


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 [MRDC-USAMRIID-2024-0003] in the subject line of the email. Please

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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.

**Connect with ORISE...on the GO!** Download the new ORISE GO mobile app in the [Apple App Store](#) or [Google Play Store](#) to help you stay engaged, connected, and informed during your ORISE experience and beyond!

- Eligibility Requirements**
- **Citizenship:** U.S. Citizen Only
  - **Degree:** Master's Degree received within the last 48 month(s).
  - **Overall GPA:** 3.80
  - **Discipline(s):**
    - **Life Health and Medical Sciences** ([5](#) )
  - **Age:** Must be 18 years of age