

Opportunity Title: USAMRIID Modeling Viral Diseases with Microphysiological Systems Postdoctoral Fellowship
Opportunity Reference Code: USAMRDC-MRIID-2025-0007

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-doctoral fellowship at the U.S. Army Medical Research and Development Command - Medical Research Institute of Infectious Diseases (USAMRDC-MRIID).

What will I be doing?

As an Oak Ridge Institute for Science and Education (ORISE) participant, you will join a community of scientists and researchers in an effort to focus on the development and characterization of microphysiological systems or organ on a chip model for viral agents. Research project emphasis is placed on determining virus growth and stimulation of an appropriate immune response that mimics what is observed in human infection or animal models of disease. Most, but not all, of this research is conducted in either BSL-3 or BSL-4 high containment laboratories and requires enrollment in a Biological Personnel Reliability Program (BPRP). As a successful candidate, you should be highly motivated and welcome the use of a variety of approaches to address important, challenging scientific problems.

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,

- Using MPS to identify new potential targets for future medical countermeasure development
- Learning development and characterization of microphysiological systems or organ on a chip models for viral agents
- Collecting and analyzing data from a diverse research portfolio
- Building professional networks
- Expanding research and critical thinking skills while investigating experimental approaches and interpreting data

Where will I be located?

Fort Detrick, Maryland

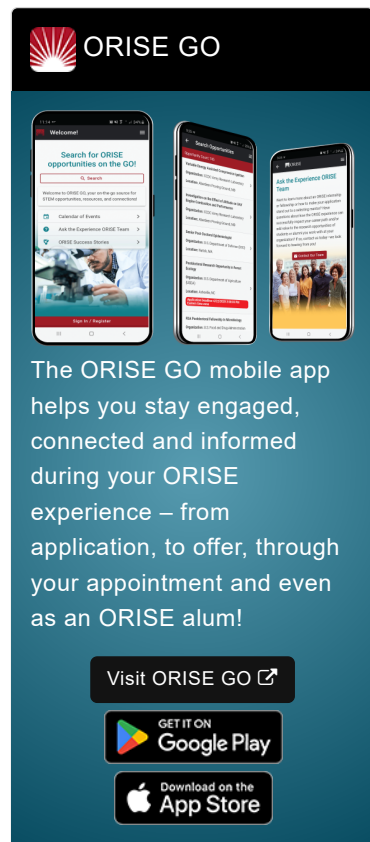
What is the anticipated start date?

The MRIID 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?


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 provisions?




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You will receive a stipend to be determined by MRIID. 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 ORISE*)
- Relocation Allowance
- Training and Travel Allowance

Security Clearance

While participants will not enter an employment relationship with DoD or any other agency, this opportunity will require a suitability investigation/background investigation. Any offer made is considered tentative pending favorable outcome of the investigation.

About MRIID

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. For more information about the MRIID, please visit <https://usamriid.health.mil/>.

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 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 doctoral degree in cell biology, virology, microbiology, or infectious diseases. Degree must have been received within two years of the appointment start date or will be completed by June 30, 2025.

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

- Experience in virology research using microphysiological systems.
- Knowledge and background in cell biology/virology/ molecular biology
- BSL-2/3 laboratory experience with hands-on experience in wet-lab procedures
- Functional knowledge of molecular techniques such as multiplex cytokine analysis; PCR; real-time PCR; PCR primer/probe design and DNA sequencing and analysis
- Strong technical writing, oral communication, interpersonal and organizational skills

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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.](#)
- 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 [USAMRDC-MRIID-2025-0007] 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 [Kimberly](#)

- Eligibility Requirements**
- **Citizenship:** U.S. Citizen Only
 - **Degree:** Doctoral Degree received within the last 24 months or anticipated to be received by 6/30/2025 11:59:00 PM.
 - **Discipline(s):**
 - **Life Health and Medical Sciences** ([6](#) )