

Opportunity Title: USAMRICD Researcher: Chemist/Chemical Engineering Internship
Opportunity Reference Code: MRDC-MRICD-2025-0002

Organization U.S. Department of Defense (DOD)

Reference Code MRDC-MRICD-2025-0002

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

Description The Department of Defense (DoD) is offering internships or fellowships at the U.S. Army Medical Research and Development Command - Medical Research Institute of Chemical Defense (USAMRDC MRICD).

What will I be doing?

As an ORISE participant, you will join a community of scientists and researchers in an effort to support the development and evaluation of medical diagnostics for exposure to toxic chemical agents. Specifically, experiments to measure exposure to a toxic industrial chemical via electrochemical and optical techniques.

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,

- Electrochemical methods such as chronoamperometry for development of biosensors intended for eventual FDA approval.
- Medical device development and testing to include *in vitro* and *in vivo* evaluations of device efficacy.
- Synthesis of biopolymers and development of novel colorimetric chemistries.
- Planning and execution of experiments.
- Analysis of experimental results.
- Analytical chemistry and use of analytical instrumentation such as liquid and gas chromatography, mass spectrometry and nuclear magnetic resonance spectroscopy.
- Analysis and presentation of experimental data for inclusion reports and manuscripts for peer-reviewed publications.
- Opportunities exist for ORISE participants to propose and conduct their own projects, as well as attend research conferences.

For additional information, please contact Dr. Paparoidamis at nicholas.paparoidamis.civ@health.mil

Where will I be located?

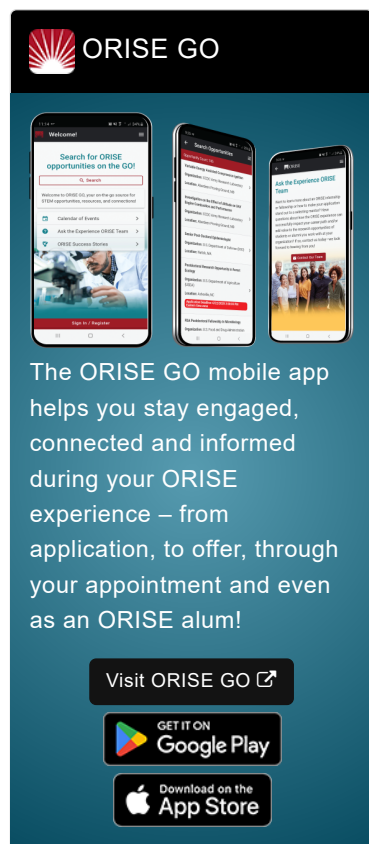
Gunpowder, Maryland

What is the anticipated start date?

The USAMRICD 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,



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project assignment, program rules, and availability of the participant.

What are the appointment provisions?

You will receive a stipend to be determined by USAMRICD. 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

About USAMRICD

The U.S. Army Medical Research Institute of Chemical Defense (USAMRICD) is the Department of Defense's lead laboratory for medical chemical defense research. As a subordinate element of the U.S. Army Medical Research and Materiel Command (USAMRMC), the institute conducts research for development of medical countermeasures to treat exposure to various chemical threat agents for protection of soldiers and civilians. Scientific disciplines at USAMRICD include, but are not limited to, chemistry, biology, biochemistry, pharmacology, molecular biology, neuroscience, toxicology, physiology, psychology, and immunology. For more information about the USAMRICD, please visit [Home - USAMRICD \(health.mil\)](https://www.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 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](https://www.orise.orau.gov).

Qualifications The qualified candidate will have earned or be nearing completion of a bachelor's, master's or doctoral degree. Completed degree must have been received within five years of the appointment start date or received by June 30, 2025. U.S. military veterans who have been honorably discharged (or who have been medically discharged because of a service-connected disability) and who received a bachelor's, master's or doctoral degree within ten years of the desired start date are also eligible.

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

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institution systems may be submitted. [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 [MRDC-MRICD-2025-0002] 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.

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!

Point of Contact [Kimberly Hart](#)

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| Eligibility Requirements | <ul style="list-style-type: none">• Citizenship: U.S. Citizen Only• Degree: Bachelor's Degree, Master's Degree, or Doctoral Degree received within the last 60 months or anticipated to be received by 6/30/2025 11:59:00 PM.• Discipline(s):<ul style="list-style-type: none">◦ Chemistry and Materials Sciences (6 )◦ Engineering (4 )◦ Science & Engineering-related (1 )• Age: Must be 18 years of age• Veteran Status: Veterans Preference, degree received within the last 120 month(s). |
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