

Opportunity Title: USAMRICD Nuclear Magnetic Resonance (NMR) Research Internship

Opportunity Reference Code: MRDC-MRICD-2024-0005

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-masters/post-doctoral internship opportunity at the U.S. Army Medical Research Institute of Chemical Defense (USAMRICD) located in Gunpowder, Maryland.

Why should I apply?

This opportunity supports the development of medical diagnostics for toxic chemical agents using Nuclear Magnetic Resonance (NMR). Under the guidance of a mentor and a senior NMR scientist, 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 including but not limited to:

- Analytical chemistry
- Instrumentation operation and troubleshooting (Bruker and Agilent NMR)
- Data collection and analysis using basic and specialized software like MS Office, Prism, TopSpin, vNMRJ, CRAFT and MNova
- Presentation of results for reporting and writing manuscripts for peer-reviewed publications

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

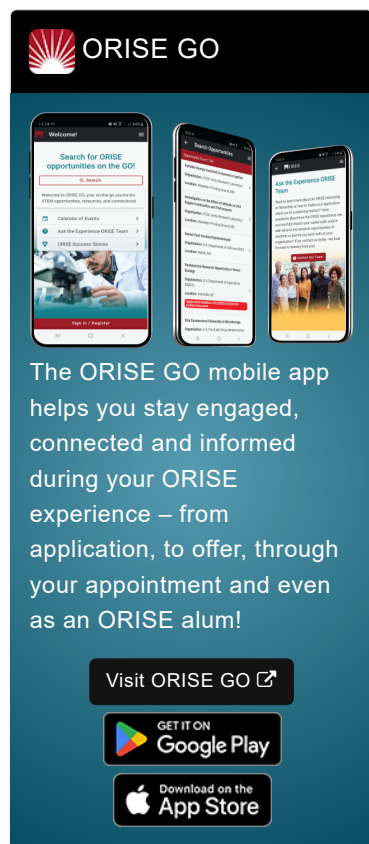
What are the benefits?

You will receive a stipend to be determined by USAMRICD. Annual stipends start at \$64k for master's and \$80k for PhDs. 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 for singles and families (*Participants are eligible to purchase health insurance through ORISE*)
- Training and Travel Allowance (up to \$3000 per year is allotted for conference travel and participation)
- Incoming full-time participants may receive relocation/dislocation funds for qualified expenses


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




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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.

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 Applicants must be currently pursuing a master's degree or PhD with an anticipated graduation of June 2024 or have received either a master's degree or PhD within the last five years in Chemistry or related field (required).

Preferred Qualities:

- Experience with experiment planning and execution
- NMR spectroscopy
- Basic laboratory skills, with interests in biomedical engineering, biochemistry, chemistry, electro-chemistry, and toxicology in general
- Effective writing and speaking skills
- Ability to comfortably operate in a research team environment
- Ability to operate independently when needed
- Willingness to learn new skills
- Proficiency with MS Office software product and other laboratory software

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Master's Degree or Doctoral Degree received within the last 60 months or anticipated to be received by 6/30/2024 12:00:00 AM.
- **Overall GPA:** 3.00
- **Discipline(s):**
 - **Chemistry and Materials Sciences** ([7](#) )
 - **Engineering** ([1](#) )
 - **Life Health and Medical Sciences** ([3](#) )
- **Age:** Must be 18 years of age
- **Veteran Status:** Veterans Preference, degree received within the last 120 month(s).