**Opportunity Title:** Chemical Nerve Agent Countermeasures Research Fellowship
**Opportunity Reference Code:** MRICD-1469708900

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

**Reference Code** MRICD-1469708900

**How to Apply**

Components of the online application are as follows:

- Profile Information
- Educational and Employment History
- Essay Questions (goals, experiences, and skills relevant to the opportunity)
- Resume (PDF)
- Transcripts/Academic Records
- References

Submitted documents must have all social security numbers, student identification numbers, and/or dates of birth removed (blanked out, blackened out, made illegible, etc.) prior to uploading into the application system.

If you have questions, send an email to ARMY-MRMC@ORISE.ORAU.GOV. Please list the reference code of this opportunity in the subject line of the email.

All documents must be in English or include an official English translation.

**Description**

The Research Participation Program for the U.S. Army Medical Research Institute of Chemical Defense (USAMRICD) provides opportunities to participate in USAMRICD on-going applied research and development projects. USAMRICD is the Department of Defense's lead laboratory for the execution of medical chemical defense research. As a subordinate element of the U.S. Army Medical Research and Development Command (USAMRDC), the institute conducts research involving the development, testing, and evaluation of medical counter-measures to the effects of various chemical warfare agents. Project areas include chemical, biochemical, pharmacology, molecular biology, neuroscience, toxicology, and immunology.

One ORISE research appointment is available within the Countermeasures Program, Neuroscience Branch at USAMRICD. Various labs within the institute research a variety of threat agents and countermeasures using multi-disciplinary approaches and in vitro, in silico, and in vivo models. The ORISE participant will join a dynamic laboratory team dedicated to identifying medical countermeasures for treatment of exposure to various chemical warfare nerve agents. Projects will involve funded research to investigate causes of nerve agent toxicity and the effectiveness of novel treatment drugs. The participant will conduct in vivo pharmacology and toxicology experiments to determine basic mechanisms of action as well as applied studies evaluating and developing pretreatment/treatment regimens and antidotes for chemical surety material. Candidate will be involved with animal studies in rodents (rats and mice) to determine the effectiveness of these novel treatments to counteract nerve agent toxicity. The research project will involve surgical preparation of animals, surgery, evaluation of electrophysiological records, assisting with tissue collection, preparation for histopathological analysis, neuroinflammation studies, immunohistochemistry, and maintenance of detailed records.

**Appointment Length**

This is a twelve month research appointment, the appoint terms may be renewed for additional twelve month appointments.

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**Participant Benefits**

Participants will receive a stipend to be determined by USAMRICD. Stipends are typically based on the 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 ORISE.*
- Relocation Allowance
- Training and Travel Allowance

**Nature of Appointment**

The participant will not enter into an employee/employer relationship with ORISE, ORAU, DOD, or any other office or agency. Instead, the participant will be affiliated with ORISE for the administration of the appointment through the ORISE appointment letter and Terms of Appointment.

## Qualifications

Participant must have a Bachelor's degree in Biology, Neuroscience, or related life science.

## Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Bachelor's Degree.
- **Overall GPA:** 3.00
- **Discipline(s):**
  - **Environmental and Marine Sciences** (1 👁)
  - **Life Health and Medical Sciences** (45 👁)