

Opportunity Title: Research Internship in Neuroscience
Opportunity Reference Code: MPMC-MRICD-2019-0009

Organization U.S. Department of Defense (DOD)

Reference Code MPMC-MRICD-2019-0009

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 - [Click here for detailed information about acceptable transcripts](#)
- Recommendation

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

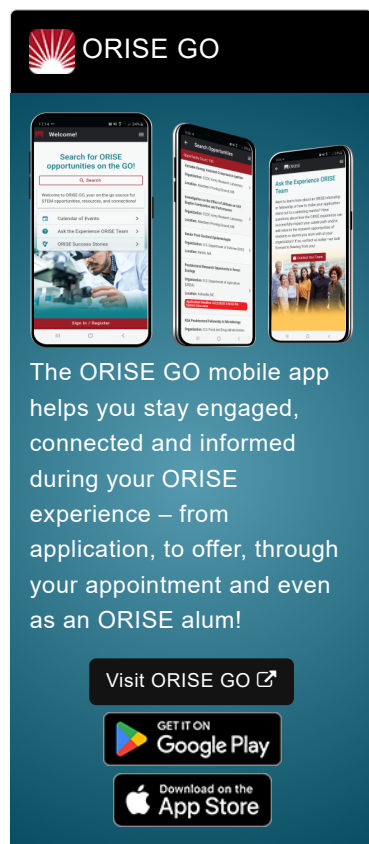
If you have questions, send an email to Army-MPMC@orise.ora.gov. Please list the reference code of this opportunity in the subject line of the email.

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

Description The 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. Visit us on Facebook at www.facebook.com/USAMRICD.

U.S. Army Medical Research Institute of Chemical Defense (MRICD) is the Department of Defense's lead laboratory tasked with the development of medical countermeasures against chemical threats. For more information about MRICD, please visit: <https://usamricd.apgea.army.mil/>.

This research will extend the participant's educational experience by teaching the intern research methods in a laboratory setting. The intern will gain hands on experience in studies of medical chemical defense and gain an understanding and technical skills in conducting behavioral neuroscience research. Participant will assist with studies utilizing in vivo pharmacology, neuroscience and toxicology to determine basic mechanisms of action of toxic chemicals as well as applied studies to evaluate medical countermeasures against toxic chemical exposures in animal models. Studies utilize a multidisciplinary approach. Intern will learn to evaluate electroencephalographic data for seizure identification, and how to perform behavioral assessments in animal subjects using state-of-the-art automated imaging programs; learn to prepare routine drug solutions, utilize microscopes for analysis of brain pathology, tabulate and summarize data using spreadsheets, perform detailed statistical analysis and prepare tables/graphs of data. In conjunction with mentor, prepare detailed methods and results sections of experiments for presentations and publication in scientific journals and assist with presentations when opportunities arise. Conduct literature searches under guidance of the mentor and participate in meetings with other interns and scientific staff to increase knowledge in medical chemical



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defense and in the field of neuroscience. The intern will learn how to conduct research under controlled conditions and will gain an understanding of research methods that they may then apply to future endeavors in a career in science or medicine. The interns will serve as an apprentice, learning how to conduct research and gaining technical skills necessary to do research, as well as to learn how to interpret data and develop critical thinking about the results as it relates to medical chemical defense.

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.

Participant Benefits

Participants will receive a stipend to be determined by MRICD. Other benefits may include the following:

- Health Insurance Supplement. *Participants are eligible to purchase health insurance through ORISE*
- 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.

While participants will not enter into 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.

Qualifications BS or BA in:

- Biology
- Neuroscience
- Biopsychology
- Physiology
- Anatomy or related science field

Prefer, but not required:

- Prior laboratory experience
- Familiarity with microscopes

Requires good organizational skills, responsible individual and attention to detail.








Participant must be willing to submit for a security clearance upon arrival and be able to obtain and maintain a secret security clearance.

- Eligibility Requirements**

- **Citizenship:** U.S. Citizen Only
 - **Degree:** Associate's Degree or Bachelor's Degree received within the last 60 months or anticipated to be received by 5/31/2019 12:00:00 AM.

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- **Overall GPA:** 2.00
- **Discipline(s):**
 - **Chemistry and Materials Sciences** ([12](#) )
 - **Communications and Graphics Design** ([1](#) )
 - **Environmental and Marine Sciences** ([12](#) )
 - **Life Health and Medical Sciences** ([45](#) )
 - **Other Non-Science & Engineering** ([2](#) )
 - **Physics** ([16](#) )
 - **Social and Behavioral Sciences** ([27](#) )
- **Age:** Must be 18 years of age
- **Veteran Status:** Veterans Preference, degree received within the last 120 month(s).

Affirmation If pursuing, degree must be received by May 2019.