Opportunity Title: Medical Toxicology Research Intern
Opportunity Reference Code: MRMC-MRICD-2021-0001

Organization U.S. Department of Defense (DOD)

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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 (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 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 http://www.facebook.com/USAMRICD.

The Inhalation Toxicology Team's research focus is on the development of in vivo and in vitro models to investigate the therapeutic potential of medical countermeasures against chemical insults. As an ORISE participant, you will partake in a collaborative, team-oriented environment. This opportunity will focus on the participant's learning experience, focusing on applied laboratory-based experiments and producing data on the effects of various chemical agents and medical countermeasures in various animal species and human in vitro models. Throughout this opportunity, you will obtain hands-on experience in animal research and the handling and collection of tissues from animals exposed to various chemicals, all in compliance with IACUC protocols. You will also gain experience in the development of human in vitro models for therapeutic investigation, which will include cell culture models, 3-D spheroid models, and human engineered tissues. Under the guidance of a mentor, you will learn to compile, analyze, and present experimental data using multiple spreadsheets, statistical analysis, and presentation programs and contributing to the design and development of inhalation exposure systems, experimental protocols, and manuscripts. Your mentor will also focus on your personal career development, by providing safety training, education on maintaining laboratory notebooks and accurate records of chemical inventory and chemical agents required by USAMRICD and other competitive employment opportunities.

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

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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

Education: Associate's or Bachelor's degree in biochemistry, molecular biology, biology, toxicology, chemistry, or related field.

One or more of following skills or experience are preferred, but are NOT requirements: cell culturing, biochemical assay development, western blotting, GC-MS, flow cytometry, fluorescence imaging, confocal microscopy, animal handling and research, and/or physiological data collection and analysis hardware/software (Ponemah, FinePointe).

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Associate's Degree or Bachelor's Degree received within the last 60 month(s).
- **Overall GPA:** 2.80
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (12 👁)
  - **Environmental and Marine Sciences** (1 👁)
  - **Life Health and Medical Sciences** (45 👁)
- **Age:** Must be 18 years of age
- **Veteran Status:** Veterans Preference, degree received within the last 120 month(s).