Opportunity Title: MRICD Postdoctoral Researcher/Neuroscientist
Opportunity Reference Code: MRDC-MRICD-2022-0009R

Organization U.S. Department of Defense (DOD)

Reference Code MRDC-MRICD-2022-0009R

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

Description The U.S. Army Medical Research Institute of Chemical Defense (USAMRICD) is offering a Postdoctoral opportunity at the Aberdeen Proving Ground in Gunpowder, MD. 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 Development Command (USAMRDC), 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.

Why Should I apply?

A fellowship for a postdoctoral researcher with a background in neuroscience is open in Dr. Lucille Lumley's laboratory in the Neuroscience Department at the US Army Medical Research Institute of Chemical Defense with potential to assist the laboratory of Dr. Ryan Limbocker United States Military Academy at West Point.

What will I be doing?

Under the guidance of Dr. Lumley, other Neuroscientists at the USAMRICD and the United States Military Academy at West Point, you will engage with a research project involves *in vivo* pharmacology and toxicology experiments to determine age and sex differences in chemical-induced seizure, epileptogenesis, neuroinflammatory response, and neurodegeneration. In addition, studies to identify novel medical countermeasures to counter chemical-induced toxicity are conducted as well as *in vitro* studies in collaboration with academia to identify novel medical countermeasures against chemical threat agents. As the selected candidate, You will gain hands-on experience to complement your education and support your academic and professional goals. This includes, but is not limited to:

- Engaging in the planning and implementation of in vivo pharmacology studies to assess therapeutics against chemical-induced toxicity
- Participating in immunohistochemistry and microscopy studies on brain
- Behavioral assays of motor, cognitive and emotional function
- Telemetric physiological assessments of brain and cardiac function
- Preparing and writing manuscripts for publications
- Preparing and presenting scientific findings at conferences
- Enhancing experience with grant writing

Where will I be located?

Aberdeen Proving Ground, Maryland

What is the appointment length?

USAMRICD is prepared to begin this appointment as soon as possible and will review applications on an ongoing basis until a candidate is selected. This appointment is a 12-month research

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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. For inquiries, please contact Lucille.a.lange.civ@mail.mil

What are the benefits?

You will receive a stipend to be determined by USAMRICD. The stipend range for this fellowship is **$**74,900-$89,834 for a 12-month appointment, commensurate with experience.

Other benefits may include the following:

- Health Insurance Supplement (*Participants are eligible to purchase health insurance through ORISE*)
- Relocation Allowance
- Training and Travel Allowance

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 should possess a Doctoral Degree in Neuroscience, Physiology, Pharmacology, Toxicology or related field. Degree must have been received within 5 years of the appointment start date. Experience with in vivo studies in small or large animals is required. Microscopy experience and excellent writing skills preferred. US Citizenship required.

Additional Information:

Dr. Lucille Lumley (Lange) is a Neuroscientist whose research is primarily in the area of Nerve Agent Countermeasures, with the objective to mitigate the acute and long-term effects of exposure to organophosphorus nerve agents. The focus of Dr. Lumley's research is on the toxic effects of exposure to chemical agents and on the efficacy of therapeutics in mitigating this toxicity. Particular focus has been on the identification of efficacious anti-seizure medications to reduce the neuropathological effects of benzodiazepine refractory status epilepticus that follows nerve agent exposure when treatment is delayed. Bibliography with this URL: http://www.ncbi.nlm.nih.gov/sites/myncbi/1TCn-bKqBU0kF/bibliograpahy/48613537/public. Dr. Ryan Limbocker is an Assistant Professor of Chemistry at the United States Military Academy at West Point with research efforts in neurodegenerative disease, traumatic brain injury and biological and chemical threat agents. See his profile and list of recent publications at https://www.westpoint.edu/chemistry-and-life-science/profile/ryan_limbocker.

Application Requirements

A complete application consists of:

- Zintellect Profile

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- 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 institution systems may be submitted. Click here for detailed information about acceptable transcripts.

The successful applicant(s) will be required to comply with Environmental, Safety and Health (ES&H) requirements of the hosting facility, including but not limited to, COVID-19 requirements (e.g. facial covering, physical distancing, testing, vaccination(s).

If you have questions, send an email to army-mrmc@orise.orau.gov.

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Currently pursuing a Doctoral Degree to be received by 5/31/2023 11:59:00 PM.
- **Overall GPA:** 3.00
- **Discipline(s):**
  - **Life Health and Medical Sciences** (48 👁)
  - **Social and Behavioral Sciences** (29 👁)
- **Veteran Status:** Veterans Preference, degree received within the last 120 month(s).