

Opportunity Title: Research and Development of Chemical and Biological Defense Solutions Postdoctoral Fellowship

Opportunity Reference Code: DEVCOM-CBC-2024-0006

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 Research and Technology (R&T) Directorate at the U.S. Army Combat Capabilities Development Chemical and Biological Center (DEVCOM CBC) is offering a postdoctoral internship.

What will I be doing and why should I apply?

The Research and Technology (R&T) Directorate operates within the U.S. Army Combat Capabilities Development Command Chemical Biological Center (CCDC Chemical Biological Center). R&T has more than 400 employees, including more than 100 PhD staff members, with chemistry, biology, physiology and engineering expertise. The R&T Directorate specializes in the research and development of innovative technological solutions to solve chemical and biological defense threats to our nation—both abroad and on the homeland. R&T is funded by many government and private-industry agencies for scientific research and development work, including the Department of the Army, Department of Defense, the Federal Bureau of Investigation, Centers for Disease Control and Prevention, and the Environmental Protection Agency.

As the selected candidate and under the guidance of a mentor, you will conduct research and development of novel CBRN PPE materials. As such, you will participate in a cross functional team focused on the development, characterization and evaluation of new methods for modeling the respiration of aerosols, and conduct laboratory research related to inhalation toxicology, additive manufacturing and computational modeling of data related to human airway physiology. Finally, as an ORISE participant at the DEVCOM CBC, you will collaborate with scientists at the center across multiple disciplines, as well as other institutions working on various aspects of the research.

Where will I be located?

Edgewood, Maryland

What is the anticipated start date?

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.

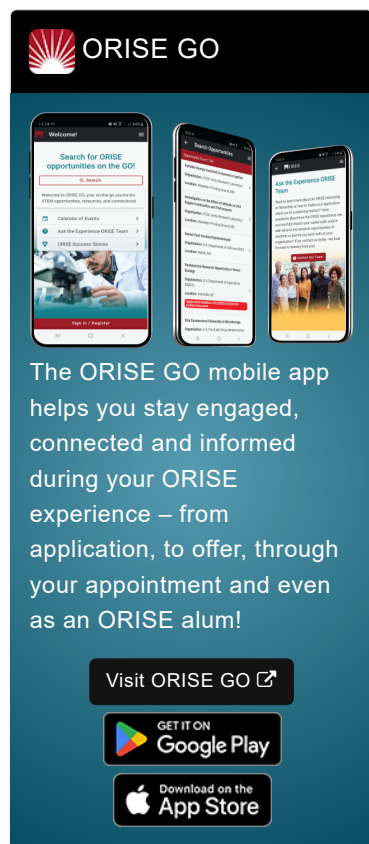
What is the appointment length?

This appointment is a full-time, 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 DEVCOM CBC. 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 (*Participants are eligible to purchase health insurance through ORISE*)
- Training and Travel Allowance



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About DEVCOM CBC

The DEVCOM Chemical Biological Center (DEVCOM-CBC) is the primary Department of Defense technical organization for non-medical chemical and biological defense. DEVCOM-CBC activities at the Edgewood portion of Aberdeen Proving Ground, Maryland, provide an extraordinary capability against emerging biological and chemical threats by merging intelligence assessments with its world-renowned chemistry, biology, physiology and engineering expertise at every stage of the acquisition life cycle. We provide a unique blend of distinguished scientists and engineers for the research and development of innovative technological solutions to solve chemical and biological defense threats to our nation—both abroad and on the homeland. For more information about the DEVCOM-CBC, please visit <https://www.cbc.devcom.army.mil>.

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 The qualified candidate will have a PhD. in biology, biochemical engineering or physics. Eligible applicants are those who have earned their PhD. within 60 months of the appointment start date or are currently pursuing with an anticipated completion date of December 31, 2024.

Highly competitive applicants can demonstrate knowledge of a wide range of applied research efforts related to novel CBRN research needs.

Application Requirements

A complete application consists of:

- Zintellect Profile
- Educational and Employment History
- Essay Questions (goals, experiences, and skills relevant to the opportunity)
- Resume (PDF)
- Transcripts/Academic Records - Please upload a copy of a transcript for your current or most recent degree program that meets the disciplinary qualifications of the opportunity. [Click here for detailed information about acceptable transcripts.](#)
- One Recommendation. We encourage you to contact your recommender(s) as soon as you start your application to ensure they are able to complete the recommendation form and to let them know to expect a message from Zintellect. Recommenders will be asked to rate your scientific capabilities, personal characteristics, and describe how they know you. You can always log back in to your Zintellect account and check the status of your application.

If you have questions, send an email to ARMY-RDECOM@orise.orau.gov. Please list the reference code of this opportunity DEVCOM-CBC-2024-0006 in the subject line of the email. Please understand that ORISE does not review applications or select applicants; selections are made by the sponsoring agency identified on this opportunity. All application materials should be submitted

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via the "Apply" button at the bottom of this opportunity listing. Please do not send application materials to the email address above.

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- Eligibility Requirements**

- **Citizenship:** U.S. Citizen Only
 - **Degree:** Doctoral Degree received within the last 60 months or anticipated to be received by 12/31/2024 11:59:00 PM.
 - **Discipline(s):**
 - **Engineering** ([3](#) 👁)
 - **Life Health and Medical Sciences** ([1](#) 👁)
 - **Physics** ([1](#) 👁)
 - **Age:** Must be 18 years of age