

Opportunity Title: Biologic Formulation and Bio-functional Materials - Post-

Graduate Research Fellowship

Opportunity Reference Code: DEVCOM-CBC-2025-0006

Organization U.S. Department of Defense (DOD)

Reference Code DEVCOM-CBC-2025-0006

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

Application Deadline 12/31/2026 3:00:00 PM Eastern Time Zone

Description **Research Topic:** Biologic Formulation and Bio-functional Materials

The U.S. Army is offering a post-graduate research fellowship at the Combat Capabilities Development Command – Chemical Biological Center (DEVCOM-CBC).

What will I be doing?

Under the guidance of a mentor, you will participate alongside a community of scientists supporting our mission to conduct innovative research and development to address existing and future chemical and biological challenges.

Bio-systems are capable of complex and dynamic, DNA-programmable functionalities including sensing specific molecules to produce a range of responses, as well as performing specific catalysis for biomanufacturing of valuable molecules. Imbuing materials with these bio-capabilities is an attractive prospect to develop products that can be programmed in the same manner to build multiple functions. Materials can also confer enhanced stability, improved delivery, and other advantages to bio-components, enabling bio-functionality in a wider variety of conditions. Within this fellowship, you will participate in research projects developing bio-functional materials and formulations to preserve living cells or active biomolecules during material processing at multiple scales. In addition, research will involve characterization of material properties such as morphology and composition as well as activity or viability of encapsulated bio-components.

Why should I apply?

This appointment offers training and travel opportunities to enhance your fellowship experience. Anticipated learning objectives include:

- Advancing research experience in bio-functional materials – build hands-on experience applying research and scientific communication skills to real-world challenges. Gain exposure to cutting-edge methodologies and technologies in bioengineering and materials science.
- Multidisciplinary collaboration – Engage with a community of scientists across the Department of Defense (DoD) and academic organizations. Participate in innovative projects that integrate chemistry, biology, and engineering.
- Scientific communication to maximize impact – Enhance skills for publishing impactful research findings and presenting scientific results to stakeholders.
- Professional development – prepare for leadership roles in research

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and development and build a competitive profile for future opportunities in academia, industry, or government research organizations.

Where will I be located?

Aberdeen Proving Ground [Edgewood Area]

What is the anticipated start date?

DEVCOM-CBC is ready to make appointments immediately. 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 fellowships will be filled as qualified candidates are identified.

What is the appointment length?

Appointments are initially for one year with the option to extend the appointment for up to four additional years, contingent upon project needs and funding availability.

What are the provisions?

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 provisions may include the following:

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

About DEVCOM-CBC

The U.S. Army Combat Capabilities Development Command - 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.

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 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](#).

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Qualifications The qualified candidate will have completed a Bachelor's, Master's, or PhD degree in the fields of biology, biochemical engineering, materials science, chemistry, or related discipline. The degree must have been received within 5 years of the appointment start date; or if currently pursuing, the degree must be anticipated to be completed by the appointment start date.

Qualified applicants should have at least 2 years of laboratory experience.

Highly competitive applicants will have 3 to 5 years of laboratory experience.

Candidates must pass a background check in order to access U.S. Army facilities.

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-2025-0006] 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 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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Stipend \$6,000.00 – \$8,500.00 Monthly

Point of Contact [Richard](#)

Eligibility • **Citizenship:** U.S. Citizen Only

Requirements • **Degree:** Bachelor's Degree, Master's Degree, or Doctoral Degree received within the last 60 months or currently pursuing.

• **Discipline(s):**

◦ **Chemistry and Materials Sciences** ([12](#) 

◦ **Engineering** ([7](#) 

◦ **Life Health and Medical Sciences** ([15](#) 

• **Age:** Must be 18 years of age