

Opportunity Title: DEVCOM-CBC Summer 2025 High School AI/ML for Chemical and Biological Detection Internship

Opportunity Reference Code: DEVCOM-CBC-2025-0002-HS

Organization U.S. Department of Defense (DOD)

Reference Code DEVCOM-CBC-2025-0002-HS

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

Description The Department of Defense (DoD) is offering a STEM-focused high school summer internship at the U.S. Army Combat Capabilities Development Command, Chemical and Biological Center (DEVCOM CBC).

What will I be doing?

As an Oak Ridge Institute for Science and Education (ORISE) participant, you will join a community of scientists and researchers in an effort to learn and develop knowledge related to AI/ML model development pertaining to chemical and biological detection. You will gain experience with algorithms, data analysis, Deep Learning, Python, pytorch and /or tensorflow, NLP, genetic algorithm, computer vision, git, raspberry pi, sensor integration, networking, and radios.

Why should I apply?

Under the guidance of a mentor, you will gain hands-on experience to support your academic and professional goals. Along the way, you will engage in activities and research in several areas.

These include, but are not limited to:

- Use software, coding and analysis as you learn about curating data for machine learning models
- Learn equipment integration and networking in the development of a Data Collection Utility
- Engage with team to prepare for future field-testing exercises to collect data to be used in the machine learning models

Where will I be located?

Gunpowder, Maryland

What is the anticipated start date?

The preferred start date is June 23, 2025. 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?

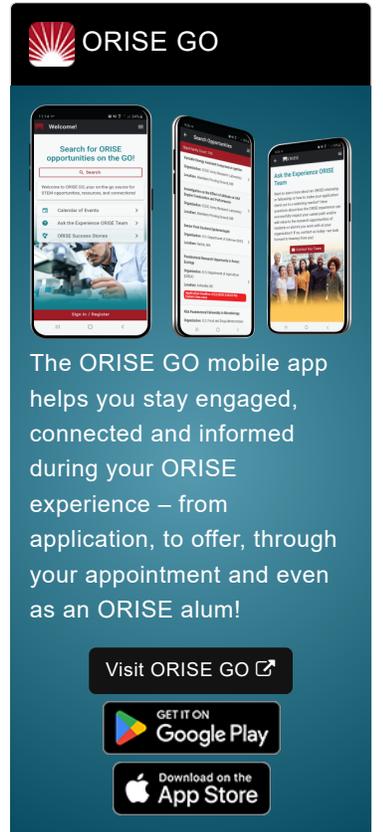
This appointment is an eight-week summer research appointment, with the possibility to be renewed for additional research periods. Appointments may be extended depending on funding availability, project assignment, program rules, and availability of the participant.

What are the provisions?

You will receive a stipend to be determined by DEVCOM CBC. The stipend for this opportunity is \$2400/month based on full-time participation.

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



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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 be at least 17 years of age and is a rising high school senior.

Highly competitive applicants will have one or more of the following:

- Experience in computer programming and/or computer science
- Completed coursework in chemistry, physics, and biology (Advanced Placement or Honors courses preferable)

Application Requirements

A complete application consists of:

- Zintellect Profile
- Essay Questions (goals, experiences, and skills relevant to the opportunity)
- Resume (PDF)
- Transcripts/Academic Records - Please upload a copy of your high school transcript
- 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-2025-0002-HS 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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Point of Contact [Alecia](#)

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

Requirements • **Degree:** Currently pursuing a High School Diploma/GED.

• **Discipline(s):**

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

◦ **Computer, Information, and Data Sciences** ([17](#))

◦ **Mathematics and Statistics** ([11](#))

◦ **Physics** ([16](#))

• **Age:** Must be 17 years of age

Affirmation I affirm that I am a rising senior