

Opportunity Title: 2021 Summer Engineering Internship at CCDC-CBC

Opportunity Reference Code: CCDC-CBC-2021-0009

Organization U.S. Department of Defense (DOD)

Reference Code CCDC-CBC-2021-0009

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

Description The Department of Defense (DoD) is offering Undergraduate research internships at the U.S. Army Combat Capabilities Development Command - Chemical Biological Center (CCDC-CBC). As an ORISE participant, you will join a community of scientists and researchers in conducting aerodynamic and aerosol experiments to determine sampling efficiency of aerosol samplers and other aerosol related research. This internship will contribute to the research and development efforts by the Sensors Signatures and Aerosol Technologies Branch of DEVCOM CBC.

Why should I apply?

Under the guidance of a mentor, you will gain hands-on experience to complement your education and support your academic and professional goals. During your ORISE appointment, you will learn about laboratory safety requirements, quality control procedures, and acceptance criteria. You will conduct aerosol experiments to determine the sampling efficiency of passive aerosol samplers. As you partake in these experiments, you will have an opportunity to learn how to aerosolize solid, liquid, and biological particles, characterize them and quantify them. You will also learn how to operate various aerosol generators and characterization instruments, in addition to learning to calculate the sampling efficiency results and comparing them to published results.

Additional learning objectives and development goals include, but are not limited to:

- Assisting in literature search
- Setting up, maintaining and breaking down experiments
- Cleaning and preparing lab equipment
- Operating sophisticated particle characterization equipment

What is the anticipated start date?

The CCDC 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 internships will be filled as qualified candidates are identified.

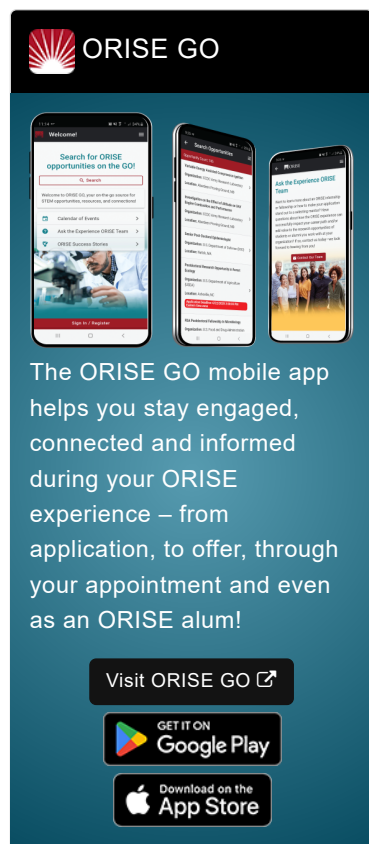
Appointment Length

An ORISE appointment period can be a short-term (less than 2 weeks), summer (10-12 weeks), or yearlong appointment. 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 CCDC. 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.*
- Relocation Allowance



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- Training and Travel Allowance

About U.S. Army CCDC-CBC

The U.S. Army Combat Capabilities Development Command - Chemical Biological Center (CCDC-CBC) is the primary Department of Defense technical organization for non-medical chemical and biological defense. (CCDC-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 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 All candidates should be actively pursuing a bachelors degree, completed at least 2 years of under graduate classes and have an interest in engineering.

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 - 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](#).
- Letter of Recommendation: While a letter of recommendation is not required to be considered, applicants are required to provide contact information for one recommendation in order to submit the application. Applicants are encouraged to request a letter of recommendation before submission as this may help reviewers have a better understanding of the applicant's qualifications and interests. If selected, a letter of recommendation must be submitted on your behalf upon acceptance of the appointment.

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


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application system. All documents must be in English or include an official English translation.

If you have questions, send an email to ARMY-REDCOM@orise.orau.gov. Please list the reference code of this opportunity [CCDC-CBC-2021-0009] in the subject line of the email.

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- Eligibility Requirements**
- **Citizenship:** U.S. Citizen Only
 - **Degree:** Currently pursuing a Bachelor's Degree.
 - **Discipline(s):**
 - **Engineering** ([27](#) )