

Opportunity Title: Water Desalination Analytical Researcher

Opportunity Reference Code: CCDC-SC-2020-0004

Organization U.S. Department of Defense (DOD)

Reference Code CCDC-SC-2020-0004

How to Apply Components of the online application are as follows:

- Profile Information
- Educational and Employment History
- Essay Questions (goals, experiences, and skills relevant to the opportunity)
- Resume (PDF)
- Transcripts/Academic Records - [Click here for detailed information about acceptable transcripts](#)
- Recommendation

Submitted documents must have all social security numbers, student identification numbers, and/or dates of birth removed (blacked out, blackened out, made illegible, etc.) prior to uploading into the application system.

If you have questions, send an email to ARMY-RDECOM@orise.orau.gov. Please list the reference code of this opportunity in the subject line of the email.

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

Description The U.S. Combat Capabilities Development Command Soldier Center (CCDC Soldier Center) is located at the U.S. Army Natick Soldier Systems Center in Natick, Massachusetts, under the Army's Futures Command. The overarching research goal of the CCDC-Soldier Center is to enhance the comfort and survivability of deployed Soldiers. If Soldiers wear it, eat it, sleep under it, or have it airdropped to them in theater, it can be traced back to the CCDC Soldier Center. Made up of a diverse workforce comprised of scientists, engineers, technologists, and equipment designers, the CCDC Soldier Center provides a wide range of capabilities to the Soldier, to include field feeding and life support systems, clothing, precision airdrop systems, and ballistic, chemical and laser-protection systems.

The goal of the Emerging Materials Development Team (EMDT) is to answer these challenges with material solutions. Individual Soldier hydration is one of the main program areas on the EMDT that is currently being researched. Specifically we desire to be able to clean-up natural bodies of water in order to make the water potable for Soldiers. As an ORISE participant at CCDC Soldier Center, you will learn the use of several different analytical techniques in order to ensure that the new desalination technologies can remove all contaminants. You will gain knowledge in using state-of-the-art liquid chromatography instruments coupled with triple quadrupole mass spectrometers (LC-MS). This learning experience will also provide you an opportunity to familiarize yourself with areas of military research interest and hands on experience needed for career development.

Appointment Length

This appointment is a twelve month part-time 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.

Participant Benefits

Participants will receive a stipend to be determined by CCDC-SC. Stipends are typically based on the participant's academic standing, discipline, experience, and research facility location. Other



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benefits may include the following:

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



Nature of Appointment

The participant will not enter into an employee/employer relationship with ORISE, ORAU, DOD, or any other office or agency. Instead, the participant will be affiliated with ORISE for the administration of the appointment through the ORISE appointment letter and Terms of Appointment.

Qualifications The desired participant, preferably a faculty member, should possess a Ph.D. in chemistry from an accredited university with extensive analytical chemistry experience.

Specifically they should possess extensive experimental knowledge of chromatography/mass spectrometry including knowledge of good lab protocols for obtaining useful LC/MS data. The desired participant should also possess knowledge of identifying compounds from convoluted LC/MS spectra and how to assign peaks from reference libraries.

- Eligibility Requirements**

 - **Citizenship:** U.S. Citizen Only
 - **Degree:** Doctoral Degree.
 - **Discipline(s):**
 - **Chemistry and Materials Sciences** ([12](#) )
 - **Environmental and Marine Sciences** ([4](#) )
 - **Age:** Must be 18 years of age