

Opportunity Title: IT Research Engineer supporting Combat Critical Care
Opportunity Reference Code: USAISR-2020-0065

- Organization** U.S. Department of Defense (DOD)
- Reference Code** USAISR-2020-0065
- 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 - 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.](#)
 - 1 Recommendation(s)

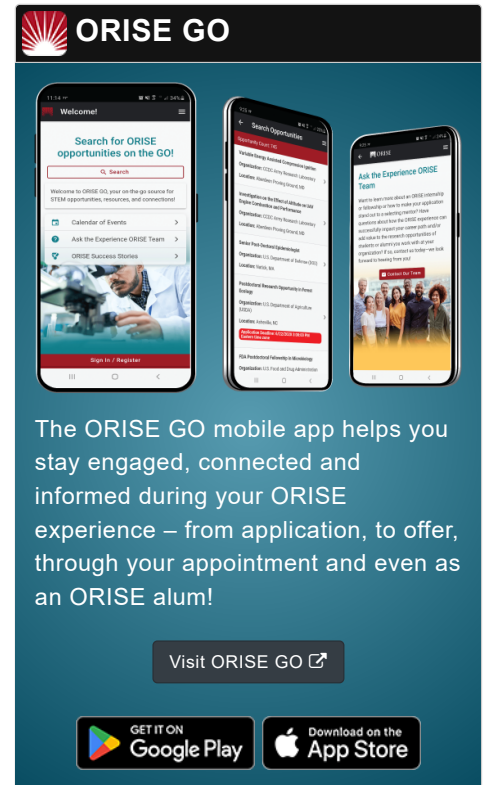
Submitted documents must have all social security numbers, student identification numbers, and/or dates of birth removed (blanked out, blackened out, made illegible, etc.) prior to uploading into the application system.

If you have questions, send an email to ARMY-MRMC@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 USAISR has an Engineering Processes and Product Development Center. The goal of this department is to create technologies that will assist medics in providing life-saving interventions in the Prolonged Field Care (PFC) Environment. This department also automates existing technology to improve critical care, combat, and burn injuries. The USAISR has at its disposal a robust vivarium with clinical and simulation models in which these technologies can be tested or validated.

Under the guidance of a mentor, the candidate selected for this project will be part of a team that aims to establish a vascular access model and possibly develop various technologies that automate vascular access to be incorporated into combat casualty care. In addition, the candidate will gain experience on a project that will use various models to establish efficacy and demonstrate predictability of the tested technology. The eventual goals are to develop, if needed, and/or validate current

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technologies and transition them to a mobile environment. Finally, the selected candidate will have the opportunity to be part of a project designed to expand current capabilities for PFC scenarios.

Appointment Length

This appointment is a 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.

Participant Benefits

Participants will receive a stipend to be determined by **USAISR**. Stipends are typically based on the 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
- 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

Preferred Qualifications:

Biomedical device development experience, research experience, good written and verbal communication skills, ability to work with a team.

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Master's Degree received within the last 60 month(s).
- **Discipline(s):**
 - **Chemistry and Materials Sciences** (12 )
 - **Communications and Graphics Design** (2 )
 - **Computer, Information, and Data Sciences** (17 )
 - **Earth and Geosciences** (21 )
 - **Engineering** (27 )
 - **Environmental and Marine Sciences** (14 )
 - **Life Health and Medical Sciences** (46 )
 - **Mathematics and Statistics** (10 )

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- **Physics** (16 )
- **Science & Engineering-related** (1 )
- **Social and Behavioral Sciences** (28 )