

Opportunity Title: Engineering: Clinical Decision Support Systems

Opportunity Reference Code: USAISR-2021-0090

Organization U.S. Department of Defense (DOD)

Reference Code USAISR-2021-0090

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

Application Deadline 11/15/2022 3:00:00 PM Eastern Time Zone

Description The U.S. Army Institute of Surgical Research is offering a Master's level internship at Joint Base San Antonio.

What will I be doing?

As an ORISE participant, you will join a community of scientists and researchers in an effort to research projects focused on medical automation. Specifically, you will assist with various mechanical engineering aspects for developing medical devices to support hemodynamic management, such as devices to insert needles into the vasculature and for closed loop resuscitation. In addition, you will research expanding current Joint Trauma Systems CPGs for PFC scenarios and research the design of a knowledge-based system, encapsulating these guidelines to facilitate development of a mobile decision support system that will enhance decision making at the point of injury during PFC. The eventual goals are to develop and validate this knowledge-based system and accompanying technologies, and transition them to a mobile environment for use on an Android platform, akin to the Army Nett Warrior or SOCOM Android Tactical Assault Kit (ATAK) platforms.

The fellow will be trained on computer aided design and engineering fabrication processes relevant to these ongoing research efforts.

Where will I be located? San Antonio, Texas

What is the appointment length?

This appointment is a 12 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.

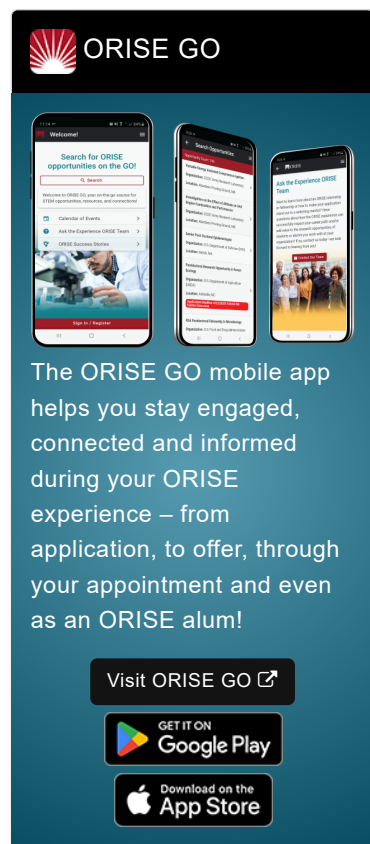
What are the benefits?

You will receive a stipend to be determined by USAISR. Stipends are typically based on a participant's academic standing, discipline, experience, and research facility location. Other benefits may include the following:

- Participants are eligible to purchase health insurance through ORISE
- Relocation Allowance
- Training and Travel Allowance

About USAISR

The U.S. Army Institute of Surgical Research (USAISR) is one of six research laboratories within the U.S. Army Medical Research and Materiel Command of the U.S. Army Medicine Command. The Institute is the Army's lead research laboratory for improving the care of combat casualties. The mission of the Institute is to "Optimize Combat Casualty Care". The Engineering Technology and Automation Combat Casualty Care Research Team at USAISR is developing technologies and products that will assist medics in providing life-saving interventions in the Prolonged Field Care



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(PFC) environment.

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 should be pursuing a Master's degree in Mechanical Engineering.

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 - 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

If you have questions, send an email to ARMY-MRMC@orise.orau.gov. Please list the reference code of this opportunity USAISR-2021-0090 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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- Eligibility Requirements**
- **Citizenship:** U.S. Citizen Only
 - **Degree:** Currently pursuing a Master's Degree.
 - **Discipline(s):**
 - **Engineering** (1👁)