Opportunity Title: Engineering / Computer Science Fellow
Opportunity Reference Code: USAISR-2022-0019

Organization	U.S. Department of Defense (DOD)
Reference Code	USAISR-2022-0019
How to Apply	Click on *Apply* at the bottom of the opportunity to start your application.
Description	The U.S. Army Institute of Surgical Research is offering a postgraduate level fellowship at Joint Base San Antonio Fort Sam Houston

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What will I be doing?

As an ORISE participant, you will join a community of scientists, engineers, and researchers developing medical automation research solutions. You will explore various engineering and computer science aspects of the research projects focused on:

- Processing time-series data sets for developing advanced monitoring solutions
- Developing medical devices for simplifying combat casualty care
- Automating ultrasound image interpretation through deep learning model development using Python and MATLAB

Why should I apply?

Under the guidance of a mentor, you will engage in a variety of research activities, including:

- developing machine learning algorithms for various research projects
- lead preparation of peer-reviewed manuscripts on cutting-edge research topics
- utilizing machine learning to enhance hemorrhagic shock resuscitation
- processing and preparing large data sets for algorithm training
- development, testing, and translation of medical devices

Where will I be located? San Antonio, Texas

What is the anticipated start date?

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 fellowships will be filled as qualified candidates are identified.
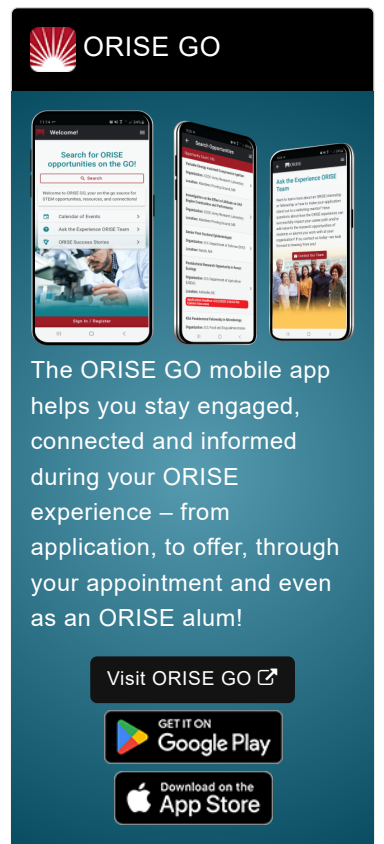
What is the appointment length?

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.

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

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The U.S. Army Institute of Surgical Research 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".

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 hold a Bachelor's or Master's degree in engineering, computer science, or related field.

Highly competitive applicants will have education and/or experience in one or more of the following:

- Ability to work with a team
- Good communication and writing skills
- Positive attitude
- Willingness to learn

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.
- One recommendation. Your application will be considered incomplete and will not be reviewed until one recommendation is submitted. 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-MRMC@orise.orau.gov. Please list the reference code of this opportunity [USAISR-2022-0016] 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

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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:** Bachelor's Degree or Master's Degree received within the last 6 month(s). **Discipline(s):** **Computer, Information, and Data Sciences** (17 👁) **Engineering** (27 👁)