Opportunity Title: USAISR Engineering / Computer Science Graduate Student Internship
Opportunity Reference Code: USAISR-2025-0003

Organization U.S. Department of Defense (DOD)

Reference Code USAISR-2025-0003

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 graduate student internship at Joint Base San Antonio.

What will I be doing?

As an ORISE participant, you will join a community of scientists, engineers, and researchers in an effort to develop medical automation research solutions. You will support various engineering and computer science aspects of the research projects focused on processing time-series data sets for developing advanced monitoring solutions, creating in silico computer models for mimicking human physiology in trauma, and 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
- gaining experience in image automation algorithms
- utilizing machine learning to enhance hemorrhagic shock resuscitation processing
- preparing large data sets for algorithm training
- learning computer aided design
- enhancing experience in engineering fabrication processes

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 internships 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.

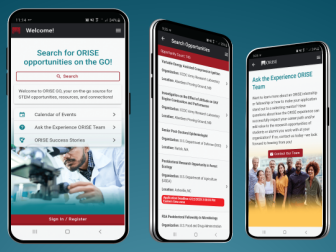
What are the provisions?

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". The Organ Support and Automation Technologies 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 (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 will be currently pursuing a graduate degree in Engineering, Computer Information and Data Sciences, or a related field.

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

- Ability to engage with a team
- Good communication 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. 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

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code of this opportunity [USAISR-2025-0003] 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.

Connect with ORISE...on the GO! Download the new ORISE GO mobile app in the Apple App Store or Google Play Store to help you stay engaged, connected, and informed during your ORISE experience and beyond!

Eligibility Requirements

- **Citizenship:** LPR or U.S. Citizen
- **Degree:** Currently pursuing a Master's Degree or Doctoral Degree.
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (12 👁)
  - **Computer, Information, and Data Sciences** (17 👁)
  - **Earth and Geosciences** (21 👁)
  - **Engineering** (29 👁)
  - **Environmental and Marine Sciences** (14 👁)
  - **Mathematics and Statistics** (11 👁)
  - **Physics** (16 👁)
  - **Science & Engineering-related** (1 👁)
  - **Social and Behavioral Sciences** (10 👁)
- **Veteran Status:** Veterans Preference, degree received within the last 120 month(s).