

**Opportunity Title:** Next Generation Tourniquet Research

**Opportunity Reference Code:** USAISR-2021-0078

**Organization** U.S. Department of Defense (DOD)

**Reference Code** USAISR-2021-0078

**How to Apply** A complete application consists of:

- Zintellect Profile
- Educational and Employment History
- Essay Questions (goals, experiences, and skills relevant to the opportunity)
- Resume (PDF)

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

If you have questions, send an email to [ARMY-MRMC@orise.orau.gov](mailto:ARMY-MRMC@orise.orau.gov). Please list the reference code of this opportunity (USAISR-2021-0078) in the subject line of the email.

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**Description** The U.S. Army Institute of Surgical Research is offering an Established Scientist fellowship.

#### What will I be doing?

You will join a community of scientists and researchers in an effort to develop a next generation tourniquet for medical providers.

The objective of this fellowship program is to train and participate in the research and develop of a next generation tourniquet for medical providers in the far forward environment. The participant will be trained in the methods to gather device requirements from industry partners, design, and develop an intelligent tourniquet system with novel sensors and establish and demonstrate the efficacy and safety of the tested technology. In addition, the fellow will assist the principal investigator and other team members with protocol writing, preparing data, and writing publications. The fellow may also broaden their scope and participate in other research projects within this CRT.

#### Why should I apply?

Under the guidance of a mentor, you will gain hands-on experience to complement your education and support your academic and professional goals. Along the way, you will engage in activities and research in several areas. These include, but are not limited to:



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- Protocol Writing
- Preparation of Data
- Publication of written results
- Gathering of device requirements from industry partners

**What is the anticipated start date?**

The USAISR is ready to make appointments immediately. 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 five 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:

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

**Nature of Appointment**

You will 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.

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 USAISR has an Engineering Technology and Automation Combat Research Team (CRT) with the goals to create technologies that will assist medical providers with life-saving interventions in the Prolonged Field Care (PFC) Environment. This CRT also automates existing technologies to improve critical care, combat, and burn injuries.

**Qualifications** Candidate should have a PhD in one of the disciplines. The candidate should have a background in material science, engineering, sensor

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development, additive manufacturing and/or other related scientific research

- Eligibility Requirements**

- **Citizenship:** U.S. Citizen Only
  - **Degree:** Doctoral Degree.
  - **Discipline(s):**
    - **Chemistry and Materials Sciences** ([1](#)👁)
    - **Engineering** ([2](#)👁)
    - **Life Health and Medical Sciences** ([2](#)👁)