

**Opportunity Title:** Extracorporeal Life Support for treatment of lung and renal failure

**Opportunity Reference Code:** USAISR-2019-0026



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

**Reference Code** USAISR-2019-0026

**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 (blacked 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](mailto: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 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". For more information about USAISR: <https://www.usaisr.amedd.army.mil>.

The Extracorporeal Life Support (ECLS) research projects within the Department of Expeditionary Critical Care focus on lung failure, renal failure and combinations thereof occurring due to severe combat relevant trauma and resuscitation during 72-hour long round the clock studies at prolonged field care timelines. Participants will collect, analyze and monitor vital signs and physiologic measurements; assist in conducting the studies; and, under the supervision of the Principal Investigator operate infusion pumps and various ECLS devices. They will also provide support during ex-vivo and in-vivo experiments on benchmarking of ECLS devices. The participant will learn techniques in experimental design, data collection and analysis, and prepare scientific abstracts and manuscripts.

#### **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.*

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- 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** Current undergraduate student or recent graduate with skills and desire to participate in research opportunity focused on ex vivo and in vivo testing of state of the art extracorporeal life support technology.

#### **Eligibility Requirements**

- **Citizenship:** U.S. Citizen Only
- **Degree:** Bachelor's Degree received within the last 60 months or currently pursuing.
- **Discipline(s):**
  - **Communications and Graphics Design** (2 )
  - **Computer, Information, and Data Sciences** (16 )
  - **Earth and Geosciences** (20 )
  - **Engineering** (27 )
  - **Environmental and Marine Sciences** (15 )
  - **Life Health and Medical Sciences** (46 )
  - **Mathematics and Statistics** (11 )
  - **Nanotechnology** (1 )
  - **Other Non-S&E** (2 )
  - **Other Physical Sciences** (12 )
  - **Physics** (16 )
  - **Social and Behavioral Sciences** (27 )