

Opportunity Title: 2019 U.S. Army Institute of Surgical Research Summer Internship Program

Opportunity Reference Code: 2019USAISRSUMMER

Organization U.S. Department of Defense (DOD)

Reference Code 2019USAISRSUMMER

How to Apply A completed application consists of:

- All required fields in both the profile and application form.
- Transcripts - Unofficial transcripts may be submitted. Transcripts must include name of the academic institution, name of the student, completed coursework and grades through summer 2018 and courses in progress/completed during Fall 2018. *Submitted transcripts 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.*
- A current resume/Curriculum Vitae
- Two academic recommendations completed by either faculty adviser or school faculty received by January 28, 2019, 8:00 a.m. You may request more than two faculty to complete the electronic document. The first two completed recommendations will be accepted and fulfill this requirement.

Application Deadline 1/21/2019 8:00:00 AM Eastern Time Zone

Description **About USAISR**

USAISR's mission is to provide combat casualty care medical solutions and products for wounded warriors, from self-aid through definitive care across the full spectrum of military operations; provide state-of-the-art trauma, burn, and critical care to Department of Defense beneficiaries and civilians; and provide Burn Flight Teams.

USAISR – Summer Internships 2019 (U.S. Citizenship Required)

The US Army Institute of Surgical Research (USAISR) is seeking applications for summer internship appointments for undergraduate students from accredited colleges and universities to conduct research at the USAISR. The internship has a firm start date of **Monday, 3 June**, and will end on **Friday, 9 August 2019**. Applicants will be evaluated once their complete packet is submitted. The final deadline for application submission is **Monday, January 21, 2019**.

The intent of the undergraduate student internship is to provide an opportunity for students interested in science, engineering or medical career fields to participate in research directed at improving the care of injured military service members and society at large. This mentored research experience will expose interns to ongoing efforts in integrated science, technology and engineering solutions at the nation's premier military trauma research institute. Selected candidates will be compensated \$2,750.00 per month, based upon full-time participation.

Chosen applicants will participate closely with a USAISR staff mentor and their research team to conduct a scientific investigation in one of the research Task Areas of the USAISR. These areas and a brief description are listed below. Applicants are asked to rank their Task Area preference to their top 3 choices. (Of note, not all areas will participate in the summer



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program and, therefore, top choices cannot be guaranteed). Interns will present the findings of their research projects at a poster session at the end of the experience.

Those travelling from outside the San Antonio, TX area may be eligible to receive additional travel funds, which will be considered on a case-by-case basis. Transportation and housing will not be provided. All participants must procure their own housing and transportation.

Nature of Appointment

While participants will not enter into an employment relationship with DOD or any other agency, this opportunity will require a suitability investigation/background investigation. Any offer made is considered tentative pending favorable outcome of the investigation.

Task Area Descriptions:

- **Damage Control Resuscitation**—Develop methods and products to stop bleeding, replace lost blood volume and mitigate the pathophysiologic consequences of severe trauma (e.g., bleeding, burns).
- **Coagulation and Blood**—Improve the safety, efficacy and logistical supportability of blood products, identify mechanisms of coagulation dysfunction in trauma, diagnostics and therapeutics to restore normal function.
- **Extremity Trauma and Regenerative Medicine**—Focused on infection control and healing in extremity trauma; reconstruction/regeneration of volumetric and segmental defects of muscle and bone; and rehabilitation following extremity trauma.
- **Multi-Organ Support Technology**—Develop and optimize methods to minimize damage and sustain vital organ function following severe trauma in a setting of delayed definitive care.
- **Tactical Combat Casualty Care**—Focused on patient care under the unique set of tactical, environmental and patient factors associated with point of injury care, including ground and air transport.
- **Combat Trauma and Burn Injury Research**—Improve burn wound stabilization, repair, healing, scar minimization and functional recovery.
- **Battlefield Pain Management**—Identify and develop battlefield pain management options for effective and safe pain management at all levels of care.
- **Sensory Trauma**—Develop treatments, methods and modeling that protect, repair and restore the sensory system (e.g., Ocular, Auditory)
- **Clinical Decision Support and Automation Research Branch**— Provides support to other ISR programs requiring technology solutions to identified programmatic requirements and documented gaps.

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- **Prolonged Field Care**—Monitor, coordinate and provide programmatic recommendations regarding prolonged field care efforts in other Capability Areas and the Joint Program.
- **Medical Effects of Directed Energy**—Addresses key gaps in detecting injuries and developing countermeasures to directed energy exposure.
- **Acute Maxillofacial Trauma Research**- Research, develop, and transition relevant knowledge and materiel solutions to stabilize and improve healing, function and aesthetic outcome of severe, combat-related craniomaxillofacial injury.

Qualifications

Applicants need to meet the following eligibility criteria at the time of application:

- Be a U.S. citizen (*evidence of U.S. citizenship must be submitted to ORISE at the time appointment is accepted*)
- All interns must have completed at least their First Year class requirements for a bachelor's degree with an overall GPA of 3.0 or higher (out of a maximum of 4.0; if other scale is used, provide qualitative interpretation and/or equivalency to 4.0 scale). A science or engineering program of study is preferred, and prior research experience will be considered. *Candidates selected for an internship appointment will be required to provide proof of enrollment during Winter/Spring 2019.*
- Be pursuing a degree in a science, technology, engineering or mathematics (STEM) discipline.
- Have a cumulative GPA of 3.0 or higher on a 4.00 scale as of Fall 2018.
- May 2019 BS graduates are eligible to apply for consideration.

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Currently pursuing an Associate's Degree or Bachelor's Degree.
- **Overall GPA:** 3.00
- **Discipline(s):**
 - **Chemistry and Materials Sciences** ([12](#))
 - **Communications and Graphics Design** ([2](#))
 - **Computer, Information, and Data Sciences** ([16](#))
 - **Earth and Geosciences** ([21](#))
 - **Engineering** ([27](#))
 - **Environmental and Marine Sciences** ([14](#))
 - **Life Health and Medical Sciences** ([45](#))
 - **Mathematics and Statistics** ([10](#))
 - **Other Non-Science & Engineering** ([2](#))
 - **Physics** ([16](#))
 - **Science & Engineering-related** ([1](#))
 - **Social and Behavioral Sciences** ([27](#))