

**Opportunity Title:** Injury Biomechanics Research Internship at AARL

**Opportunity Reference Code:** MRDC-AARL-2024-0005

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

**Reference Code** MRDC-AARL-2024-0005

**How to Apply** Click on *Apply* at the bottom of the opportunity to start your application.

**Description** The Department of Defense (DoD) is offering internships at The U.S. Army Aeromedical Research Laboratory (USAARL) for candidates that are currently pursuing a bachelor's or master's degree in the field of engineering, life health and medical sciences, mathematics and statistics, or physics.

**What will I be doing?**

As an ORISE participant, you will join a community of scientists and researchers in an effort to investigate the field of injury biomechanics related to musculoskeletal injury prevention and protection.

**Why should I apply?**

Under the guidance of a mentor, you will gain hands-on experience to 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: engage in a variety of research activities, including:

- Areas of interest include head-supported mass, whole-body vibration, and casualty transport.
- Learn to characterize human kinematic responses to exposures through use of laboratory grade sensors and equipment.
- Gain experience conducting and presenting research.

**Where will I be located?**

Fort Novosel, Alabama

**What is the anticipated start date?**

June 3, 2024. 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 or fellowships will be filled as qualified candidates are identified.

The selected candidate will undergo a background investigation and must obtain a favorable clearance to participate. An interim clearance is required prior to the candidate starting his/her appointment.

**What is the appointment length?**

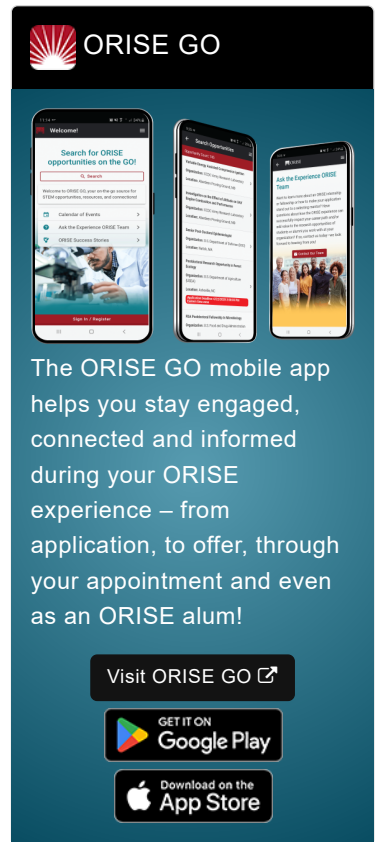
This appointment is a twelve-week research appointment, with the possibility to be renewed for additional research periods. Appointments may be extended depending on funding availability, project assignment, program rules, and availability of the participant.

**What are the benefits?**

You will receive a stipend to be determined by USAARL. Stipends are typically based on a participant's academic standing, discipline, experience, and research facility location.


**About USAARL**


The U.S. Army Aeromedical Research Laboratory (USAARL) located at Fort Novosel, Alabama, is a nationally recognized laboratory for research into safety, survival, impact tolerance, sustainability




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and performance effectiveness of aviators and Soldiers. The USAARL's research focuses on blunt, blast and accelerative injury and protection; crew survival in military helicopters and combat vehicles; the en route care environment; human operator health and performance in complex systems and sensory performance, injury and protection. Current USAARL work for the Army's modernization priorities includes research in the areas of future vertical lift, the next generation combat vehicle and directed-energy weapons. The Laboratory's highly skilled workforce consists of rated aviators, medical professionals, doctoral- and masters-level researchers, and research technicians. Visit <https://www.usaarl.health.mil/> to learn more about USAARL.

#### **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 bachelor's or master's degree in the field of engineering, life health and medical sciences, mathematics and statistics, or physics. Other comparable fields will be considered.

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

- Experience conducting injury biomechanics or human kinematics research.

#### **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 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. Recommender 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](mailto:ARMY-MRMC@orise.orau.gov). Please list the reference code of this opportunity [MRDC-AARL-2024-0005] in the subject line of the email. Please

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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.

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- Eligibility Requirements**
- **Citizenship:** U.S. Citizen Only
  - **Degree:** Currently pursuing a Bachelor's Degree or Master's Degree.
  - **Overall GPA:** 3.00
  - **Discipline(s):**
    - **Engineering** ([4](#) 👁)
    - **Life Health and Medical Sciences** ([5](#) 👁)
    - **Mathematics and Statistics** ([4](#) 👁)
    - **Physics** ([2](#) 👁)
  - **Age:** Must be 18 years of age

**Affirmation** Candidate must be 19 years old by June 3, 2024