

**Opportunity Title:** Biomechanics: Head Injury & Protection - Airborne Operations Research

**Opportunity Reference Code:** MPMC-AARL-2021-0003

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

**Reference Code** MPMC-AARL-2021-0003

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

**Description** The Department of Defense (DoD) is offering a Graduate or Postgrad student with a Bachelor's or Master's degree internships at the U.S. Army Aeromedical Research Laboratory. (USAARL)

#### What will I be doing?

As an ORISE participant, you will join a community of scientists and researchers in an effort to learn and apply experimental methods, motion analysis algorithms, equipment operations, and various techniques involved in human exposure and response research.

#### 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:

- experience with a collaborative, multi-disciplinary research team with human subjects/volunteer data collection in laboratory and field settings
- expand understanding of how to analyze data, summarize study findings in paper and presentation formats, and present findings locally and at scientific meetings
- gain a greater understanding of human kinematics, anatomical structures, and the overall research process

#### Where will I be located?

Fort Rucker, Alabama

#### What is the anticipated start date?

The USAARL 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.

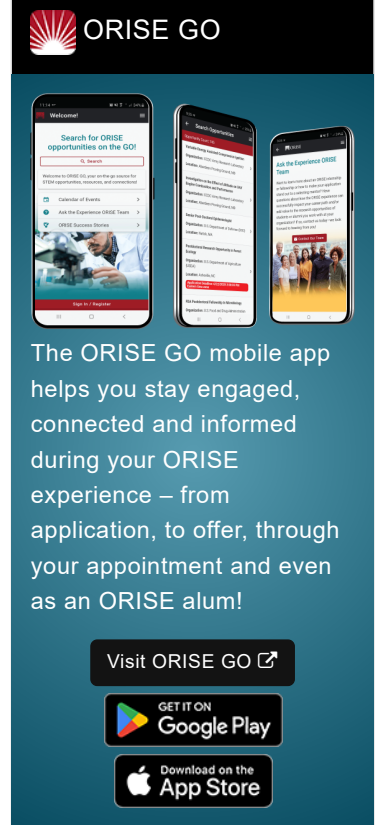
#### What is the appointment length?

This appointment is a 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 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. Other benefits may include the following:

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



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Research

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The U.S. Army Aeromedical Research Laboratory (USAARL) located at Fort Rucker, Alabama, is a nationally recognized laboratory for research into safety, survival, impact tolerance, sustainability 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.army.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 have a Bachelor's or Master's degree or will have completed by August 31, 2021. Degree must have been received within two years of the appointment start date.

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

- B.S. in athletic training plus 2 years experience as a certified athletic trainer (ATC) or in a research position
- B.S. in kinesiology plus 2 years experience in a research position
- B.S. in biomedical engineering plus 2 years experience in a kinesiology focused research program
- M.S. in athletic training plus qualified as a certified athletic trainer (ATC)
- M.S. in kinesiology plus experience in a research position
- M.S. in biomedical engineering plus experience in motion capture, physiological assessments, and musculoskeletal injury research or similar to the above experience and training with justification and description.

The opportunity requires skills and knowledge common to kinesiologist, certified athletic trainer, or physical therapist positions and training.

Experience in the military (active duty, guard, reserve) or experience working with military populations, experience that relates to knowledge of administering manual muscle tests, cervical range of motion tests, and use of electromyography, and/or experience with motion tracking, inertial measurement units (IMUs), OpenSim software are considered highly desirable.

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**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.](#)
- Two Recommendation

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

**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:** U.S. Citizen Only
- **Degree:** Bachelor's Degree or Master's Degree received within the last 24 months or anticipated to be received by 8/31/2021 11:59:00 PM.
- **Overall GPA:** 3.00
- **Discipline(s):**
  - **Chemistry and Materials Sciences** ([12](#) )
  - **Communications and Graphics Design** ([2](#) )
  - **Computer, Information, and Data Sciences** ([17](#) )
  - **Earth and Geosciences** ([21](#) )
  - **Engineering** ([27](#) )
  - **Environmental and Marine Sciences** ([14](#) )
  - **Life Health and Medical Sciences** ([46](#) )
  - **Mathematics and Statistics** ([10](#) )
  - **Physics** ([16](#) )
  - **Science & Engineering-related** ([1](#) )
  - **Social and Behavioral Sciences** ([28](#) )
- **Age:** Must be 18 years of age