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Opportunity Title: Biomechanics and Soldier Performance Research
Opportunity Reference Code: NSRDEC-1206919733

Organization U.S. Department of Defense (DOD)

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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
- References

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.

If you have questions, send an email to ARMY-RDECOM@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 Research Participation Program for the U.S. Army Natick Soldier Research Development & Engineering Center (NSRDEC) provides opportunities to participate in NSRDEC's on-going and applied research and development projects through its programs to maximize the Warrior's survivability, sustainability, mobility, combat effectiveness and quality of life by treating the Soldier as a System. NSRDEC is focused on delivering world class research, development, systems engineering and services with a unique human-centric focus by cultivating a highly motivated, expert and agile workforce; exceeding customer and stakeholder expectations; delivering an unprecedented pace and honoring commitments; and fostering long term strategic partnerships and collaborations with key customers, other government agencies, industry, and academia. Project areas disciplines include Engineering, Biology, Physics, Chemistry, and Material Science.

A research opportunity is available with the U.S. Army Natick Soldier Systems Center (NSRDEC), located in Natick, MA. Under this program, the participant will be exposed to a range of research opportunities such as the identification of biomechanical measures related to physical fatigue, agility, postural control, gait, or other movement paradigms which in turn facilitate the evaluation of materiel end items that the Soldier wears/uses.

The opportunity includes, but is not limited to the following:

- Participating in advancement of Biomechanics and related human performance sciences research as related to gait, agility and mobility.
- Engaging in continued knowledge and skill development while receiving mentorship to successfully solve research challenges related to load bearing equipment and personal protective equipment.
- Participating in the execution, collection, processing, and analysis of applied biomechanics research, while utilizing force plates, treadmills, surface electromyography, motion capture equipment, as well as stationary and mobile metabolic measurement systems.

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Appointment Length

This ORISE opportunity is a twelve month appointment. The renewal or continuation of the research appointment is contingent upon facility approval and availability of funds. Renewals are offered one year at a time, for a total of up to five years of research participation.

Participant Benefits

Participants will receive a stipend to be determined by ARMY-RDECOM@ORISE.ORAU.ORG . 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.*
- 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

Applicants must have received a Master's degree in biomechanics, kinesiology, exercise science, or physiology within five (5) years of the desired starting date.

Knowledge in Visual 3D and MATLAB software programs and participation in human subjects research is highly desirable.

U.S. citizenship is required.

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Master's Degree received within the last 60 months or currently pursuing.
- **Discipline(s):**
  - **Engineering** (27 👁)
  - **Environmental and Marine Sciences** (1 👁)
  - **Life Health and Medical Sciences** (45 👁)