

**Opportunity Title:** Software Engineering Internship - Undergraduate

**Opportunity Reference Code:** NAMRU-Dayton-2020-0016

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

**Reference Code** NAMRU-Dayton-2020-0016

**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 - [Click here for detailed information about acceptable transcripts](#)
- References

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 [navy@orise.ora.gov](mailto:navy@orise.ora.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** Naval Medical Research Unit Dayton conducts research on environmental health effects and aerospace medicine, addressing health and performance challenges faced by service members in operational military environments.

Under the guidance of a mentor, the selected candidate will participate in human performance research, to include pilot spatial disorientation, vestibular and balance function, cognitive effects of varying breathing gases, motion sickness countermeasures, spine health, vision science, virtual reality in motion environments, research data collection, modeling and simulation, and research system troubleshooting. The participant will gain significant insight into research lab operations, applied software based tasks for warfighter performance, and clinical research applications for modeling and simulation. Additionally, the participant will learn about multidisciplinary, multi-university programs for vestibular/balance research and gain an understanding of the operational needs of the joint fleet while supporting research in areas that are pertinent to the United States Navy.

#### **Appointment Length**

This ORISE appointment is for a 4-12 month period. Appointments may be extended depending on funding availability, project assignment, program rules, and availability of the participant.

**Desired start date:** 1/11/2021

#### **Participant Benefits**

Participants will receive a stipend to be determined by NAMRU-D. 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



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- 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** Undergraduate student in an accredited computer science program (preferably third or fourth year). GPA 3.3+; and ability to collaborate in various environments (hands on, laboratory, computer based).

- Favorable skills:
- C++/C# interest
  - Gaming or Modeling and Simulation interest
  - IT/Networking interest for setting up and optimizing Local Area Networks
  - Familiarity with Linux, MATLAB, CIGI, UDP, Unity/Godot Gaming Engines and Laminar X-Plane (or other flight simulation software applications)

- Eligibility Requirements**

- **Citizenship:** U.S. Citizen Only
  - **Degree:** High School Diploma/GED, Associate's Degree, or Bachelor's Degree received within the last 60 months or currently pursuing.
  - **Overall GPA:** 3.30
  - **Discipline(s):**
    - **Computer, Information, and Data Sciences** ([17](#) 👁)
    - **Engineering** ([27](#) 👁)
    - **Mathematics and Statistics** ([10](#) 👁)
    - **Physics** ([16](#) 👁)
  - **Age:** Must be 18 years of age