**Opportunity Title:** AFIT Summer 2022 CubeSat Design, Build, and Test Research Internships

**Opportunity Reference Code:** AFIT-2022-0009

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| **Organization** | U.S. Department of Defense (DOD) |
| **Reference Code** | AFIT-2022-0009 |
| **How to Apply** | Click on *Apply* at the bottom of the opportunity to start your application. |
| **Description** | The Air Force Institute of Technology is offering undergraduate level internships at Wright Patterson Air Force Base. |

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**What will I be doing?**

As an ORISE participant, you will join a community of scientists and researchers in an effort to advance the process of designing, building, and testing CubeSats. You will have the opportunity to participate in research directly supporting either the mechanical engineering team or the satellite flight software design team. You will interact with researchers across all disciplines to advance development of the Center for Space Research and Assurance's (CSRA's) spaceflight experiments.

This internship will be divided into two teams:

- The mechanical engineering team will examine satellite componentry design, fabrication, and test processes will utilize primarily SolidWorks CAD software, and AFIT laboratory facilities. You will become familiar with spacecraft design concepts and practices through their support of on-going development projects at CSRA.
- The satellite flight software development team will design, test, and implement satellite flight software and its interaction with satellite componentry. You will become familiar with spacecraft design concepts and practices through the support of on-going development projects at CSRA.

**Where will I be located?**

Dayton, Ohio

**What is the anticipated start date?**

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.
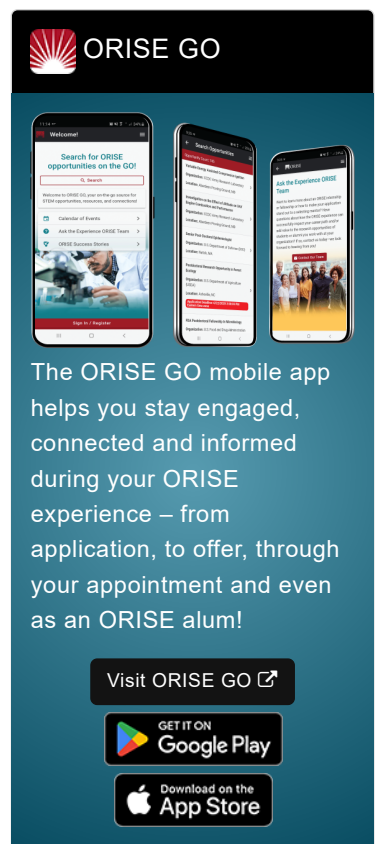
**What is the appointment length?**

This is a three 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 AFIT. 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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**About AFIT**

The Air Force Institute of Technology, or AFIT, located at Wright-Patterson Air Force Base, Ohio, is the Air Force's graduate school of engineering and management as well as its institution for technical professional continuing education. A component of Air University and Air Education and Training Command, AFIT is committed to providing defense-focused graduate and professional continuing education and research to sustain the technological supremacy of America's air, space and cyber forces.

**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 should be a current undergraduate student pursuing a degree in Engineering in any of the following disciplines:

- Aerospace and Aeronautical
- Computer and Systems Engineering
- Electrical and Electronic Engineering
- Mechanical Engineering

**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.

- 1 Recommendation

If you have questions, send an email to AIRFORCE@orise.orau.gov. Please list the reference code of this opportunity AFIT-2022-0006 in the subject line of the email. Please 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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experience and beyond!

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| **Eligibility Requirements** | <ul><li>**Citizenship:** U.S. Citizen Only</li><li>**Degree:** Currently pursuing a Bachelor's Degree.</li><li>**Discipline(s):**<ul><li>**Computer, Information, and Data Sciences** ([17 👁](#))</li><li>**Engineering** ([4 👁](#))</li></ul></li></ul> |