

Department: **EdEon STEM Learning**

Working Title: **NASA CubeSat Graduate Assistant**

Classification: **Graduate Assistant**

Number of Openings: **1**

Pay Rate: **\$3600/month FTE**

Appointment: **40 hours per week through Summer 2024**

Expected Dates of Employment: **Summer 2024 (May 27, 2024 to August 16, 2024)**

Deadline to Apply: **Open until filled**

Requisition #: **EdEon_GA_SUM_2324_2**

DUTIES OF THE POSITION

IMAP StC is the abbreviation for: Interstellar Mapping and Acceleration Probe Student Collaboration and is the program funding this position. This work involves tasks related to designing, building, testing, calibrating at least one mini satellite, known as a CubeSat, called 3UCubed. Ultimately, a 3UCubed CubeSat will be delivered to NASA for launch. We are looking to hire a master's student to support the flight software efforts relating to communications between the OnBoard Computer (OBC), transceiver and ground station at Sonoma State University. Specifically, we aim to have data packets sent from the OBC through the transceiver to the ground station and Two-Line-Element (TLE) files need to be sent from the ground station to the transceiver and OBC. The final software design and code needs to be finalized and tested by the end of the Summer and ready to test with other 3UCubed hardware in the Fall.

MINIMUM QUALIFICATIONS

Knowledge of the subject matter of the discipline in which assigned. Ability to relate well to others within the academic environment; ability to supervise, assist and train students; and ability to assist faculty in the conduct of special projects or research within the discipline. For initial appointment, evidence of satisfactory achievement in previous academic work; for the subsequent appointments, evidence of satisfactory progress toward completion of degree. Education equivalent to completion of the requirements for a bachelor's degree and registration in a University graduate degree program; students enrolled in credential programs are not eligible for this position. NOTE: Exceptions to the minimum eligibility qualifications may be granted at the sole discretion of the University.

HIRING CRITERIA

Must be in the Computer and engineering Science (MS-CES) master's program at Sonoma State University. Must have experience working with microprocessors and hardware either in coursework or a job position. Must have experience working with at least one of the following: UART, i2C, or other serial ports. Must have coding experience, either in coursework or a job position. Understanding or experience with fidl files preferred. Understanding or experience with C/C++ programming is preferred. Must be able to work in person full-time (40 hours per week) over the summer. Time off for vacations is acceptable.

HOW TO APPLY

Email resume to edeon@sonoma.edu

HIRING NOTIFICATION

Applicants will be notified by email

SUPERVISOR

Dr. Laura Peticolas

OTHER INFORMATION

- The classification, Graduate Assistant, is one of three classifications in a collective bargaining unit, Unit 11. The Graduate Assistant classification provides currently enrolled or admitted University graduate students the opportunity to assist faculty or teaching staff by performing various professional and technical duties associated generally with the subjects or program which the Graduate Assistant is doing graduate work.
- Sonoma State University hires only individuals lawfully authorized to work in the United States. All offers of employment are contingent upon presentation of documents demonstrating the appointee's identity and eligibility to work, in accordance with the provisions of the Immigration Reform and Control Act.
- The university is an Affirmative Action/Equal Opportunity Employer. We consider qualified applicants for employment without regard to race, religion, color, national origin, ancestry, age, sex, gender, gender identity, gender expression, sexual orientation, genetic information, medical condition, disability, marital status, or protected veteran status.
- This position is considered a "mandated reporter" under the California Child Abuse and Neglect Reporting Act and is required to comply with the requirements set forth in CSU Executive Order 1083 as a condition of employment.
- Successful candidates may be required to do a background check (including a criminal records check) before work in the position can begin.

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