Department: **Engineering**

Working Title: **Research Assistance**

Classification: **Instructional Student Assistant**

Number of Openings: **2**

Pay Rate: **$20/hour**

Appointment: **5-15 hours / week**

Expected Dates of Employment: **April 15, 2025- August 15, 2025**

Deadline to Apply: **April 22, 2025**

Requisition #: ENG_ISA_2526

DUTIES OF THE POSITION

Position 1:

- Program and test microcontroller-based systems for environmental monitoring.
- Integrate wireless communication modules and ensure reliable data transmission.
- Collaborate with other students and team members on system development and troubleshooting.
- Interact with environmentalists and campus staff to understand monitoring goals.
- Present the system and explain its function to campus visitors and the general public.
- Assist in documenting system functionality and user guides for future maintenance

Position 2:

- Program microcontrollers and integrate them with VR platforms.
- Collaborate with team members to prototype and test VR-game features.
- Participate in a visit to Berkeley National Laboratory and engage with research scientists.
- Explore creative ways to visualize data in immersive environments.
- Contribute to technical documentation and presentations of the project.

MINIMUM QUALIFICATIONS

The ability to learn and perform assigned work; work cooperatively with faculty, staff, and other students; and accept responsibility. Completion of specific coursework may be required in order to teach, grade, complete research, or tutor for a course. Admission or registration as a University student. Note: Exceptions to the minimum eligibility qualifications may be granted at the sole discretion of the University.

HIRING CRITERIA

Position 1:

- Basic experience with microcontroller programming (e.g., Arduino, ESP32)
- Interest in wireless technologies and networking fundamentals
- Strong communication and teamwork skills
- Self-motivated and reliable
- Willingness to engage with campus visitors and environmental partners

Position 2:

- Interest in VR development and immersive technologies
- Familiarity with microcontroller programming
- Creative mindset and problem-solving skills
- Self-driven and able to work independently
- Open to field visits and interacting with professionals in research labs

HOW TO APPLY

Contact Dr. Farid Farahmand farid.farahmand@sonoma.edu

HIRING NOTIFICATION

Finalists will be notified via email.

SUPERVISOR

Dr. Farid Farahmand

OTHER INFORMATION

- The classification, Instructional Student Assistant, is one of three classifications in a collective bargaining unit, Unit 11. Instructional Student Assistants, who must be currently enrolled University students, perform tutoring, grading, or teaching-related duties under the supervision of faculty or professional staff.
- 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.

SONOMA STATE UNIVERSITY | **ACADEMIC PERSONNEL**

SONOMA STATE UNIVERSITY

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Rohnert Park, CA 94928-3609

Academic Personnel

updated 4/3/2025