

Department: Engineering and Computer Science

Working Title: Undergraduate Research Assistant

Classification: Instructional Student Assistant

Number of Openings: 1

Pay Rate: \$20/hour

Appointment: 40 hours per week

Expected Dates of Employment: 5/23/26 to 8/23/26

Deadline to Apply: May 11, 2025

Requisition #: ECSRA_ISA_SUM26

DUTIES OF THE POSITION

The student will work on a funded grant in close collaboration with a faculty member and graduate student at the University of Central Florida. The student is expected to quickly develop proficiency in the C programming language, C development tools, the process of configuring and compiling the Linux kernel, Google's syzkaller tool, as well as collaboration tools such as GitHub and Slack. The student will be expected to help implement algorithms that analyze C build and configuration tools for security weaknesses and evaluate the accuracy and coverage of these algorithms. The student will also be expected to implement and evaluate algorithms for improving configuration testing. Finally, the student will be expected to report on their results to both internal and external audiences.

MINIMAL 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

Required: grade of B+ or higher in CS 315 or equivalent, with equivalent C/C++ proficiency. Grade of A- or higher in CS 252 or equivalent. High level of reliability, initiative, and professionalism. Expected graduation date must be Summer 2025 or later. Preferred: Strong mathematics background.

HOW TO APPLY

Email rivoire@sonoma.edu

HIRING NOTIFICATION

Email from Suzanne Rivoire

SUPERVISOR - Suzanne Rivoire, Professor of Engineering & Computer Science

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.

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1801 East Cotati Ave.
Rohnert Park, CA 94928