

Department: **Masters of Electrical and Computer Engineering**

Working Title: **Masters of Electrical and Computer Engineering Research Graduate Assistant**

Classification: **Graduate Assistant (Monthly)**

Number of Openings: **1**

Pay Rate: **\$3,051 (Full Time Base Rate)**

Appointment: **50 hours per month**

Expected Dates of Employment: **8/1/2022-1/18/2023**

Deadline to Apply: **Open until filled**

Requisition #: **ES_GA_2223**

DUTIES OF THE POSITION

Research on a cooperative system in which an aerial vehicle performs long-distance missions with assistance of a ground vehicle for battery charging. Cooperative charging strategy allows the aerial vehicle to share its distance and battery-energy information with the ground vehicle for scheduling. Investigate multiple methods for communication between the vehicles, then study mathematically how this scheduling problem should be formulated and solved efficiently. Utilize the open-source micro-UAV development platform. The cooperative system will be simulated in ROS, and then the hardware system will be tested with the assistance of an external localization system.

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

Bachelor in Electrical Engineering. 3 years of industrial engineering work experience. Previous project experience on robotic systems.

HOW TO APPLY

Please have students send an email to engineering@sonoma.edu to confirm interest in position.

HIRING NOTIFICATION

The student will receive an email from Kate Lapp confirming that they have been chosen for the position.

SUPERVISOR

Nansong Wu

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.

SONOMA STATE UNIVERSITY

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