



Summer Undergraduate Research at Cal Poly Pomona

Research Experience for Undergraduates in UAV Technologies

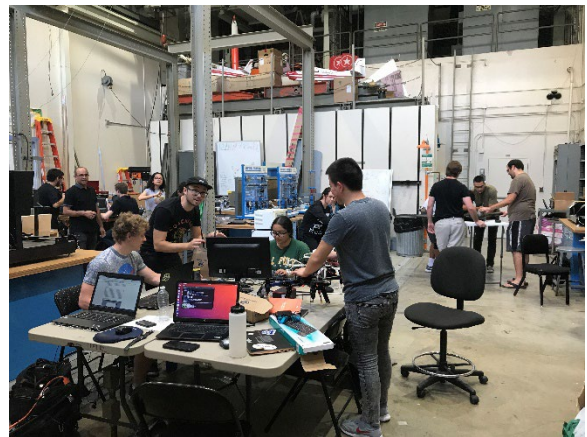
A National Science Foundation funded 10-week summer research program for undergraduates in unmanned aerial vehicles (UAV) technologies.

Program Description

The main goal of the REU Program at Cal Poly Pomona is to increase undergraduate students' participation in research projects on UAV technologies. The participants of the REU Program will have opportunity to get involved in cutting edge research on advanced topics on Dynamics and Control of UAVs, Obstacle & Collision Avoidance, Machine Learning, Artificial Intelligence, Computer Vision, and Flight Test experience. UAVs have potential of replacing manned aircraft for dull, dirty, and dangerous (3-D) missions. UAVs are cheaper than manned aircraft and pose no risk to human operators. The UAV industry is one of the fastest growing sector of aerospace industries. However, there is a lack of professionals entering the workforce for UAV related jobs. The CPP REU Program is designed to increase the students' interest in UAV technologies by means of first-hand experience on UAV research. In addition, the selected students will participate in a series of research symposium and seminars designed to expose them to a range of



research topics, and will engage in community building and professional development. The students will be



carefully and closely mentored by an interdisciplinary team of faculty members from various departments within the Colleges of Engineering and Science.

Summer 2024 Program

Application Deadline: February 15, 2024 (Tentative) Program Dates: May 28-August 2, 2024 (Tentative)

Program Highlights

- \$7,000 stipend for 10-week period
- Support for housing, transportation, meals, and travel to conferences
- Networking and professional development opportunities
- Field trips to Government Labs and industry

Eligibility

- Applicants must have GPA of 3.0 or above
- Must be US Citizen or Permanent Resident
- Must have at least one quarter or semester remaining to graduate after the program
- Underrepresented minorities and women are highly encouraged to apply

How to Apply?

Please visit the CPP UAV REU website <http://www.cpp.edu/~cppuasreu/> for information on how to apply. The website also provides information on the research projects that the REU participants will be involved in, research mentors, and important dates.

For more information, please contact Dr. Subodh Bhandari, Professor, Aerospace Engineering Department, Cal Poly Pomona, Phone: (909) 869-2612, E-mail: sbhandari@cpp.edu.