*NOTE: All text provided by the solicitor. Students are encouraged to exercise appropriate caution.*

# Robotics Mentor

**Overview**

This is a great opportunity for someone to mentor and develop the next generation of engineering talent in Oahu, with a specific focus on robotics. The robotics projects often (but not always) have a sustainability component – e.g. projects that incorporate robotics and sustainability uses. The mentorship goals are not only to help brainstorm, guide, troubleshoot, but also more importantly, develop projects that have real impact on the community.

**Compensation & Pre-requisites:**

1. Undergraduate Mechanical Engineering B.S. Degree or Equivalent (e.g. BME) w/ strong grades AND

2. Either:

a. MS or PhD Candidate (currently enrolled to accredited program): $75-100+ per hour OR

b. Post-Doc or Jr. Level Faculty: $100-150+ per hour

Anticipated time commitment starting summer through next academic year: 10-20 hours per month

**Technical Skills**

- Mechanical Design: Programming: Electronics: Control Systems: Fabrication: e.g. CAD (SolidWorks, Fusion 360), 3D modeling, mechanical assembly
- e.g. Arduino, Python, C/C++, ROS (Robot Operating System)
- e.g. Soldering, breadboarding, wiring sensors and motors
- e.g. Basic PID control, sensor feedback loops
- e.g. 3D printing, laser cutting, machining (or access to makerspace)

**Project Experience**

Such as:

- Built or mentored on FIRST/VEX Robotics teams
- Developed robots for research, coursework, or competition (e.g., autonomous navigation, robotic arms)
- Participated in capstone projects or internships involving mechanical or mechatronic systems
- Published work or presented on robotics topics (even at student symposia)Real world applications, uses, AI and roll-outs a big plus
- Mentorship & Communication Skills
- Teaching & Coaching Abilities
- Experience tutoring, TA'ing, or leading workshops
- Ability to break down and explain complex concepts
- Familiarity with project-based learning and goal-setting

**Personality Fit**

- Patient, encouraging, and enthusiastic
- Comfortable letting the student lead while providing structure and safety
- Can inspire curiosity and problem-solving, not just provide answers
- A primary mission is not to do the project(s) for the student, but rather inspire, guide and develop with the student leading and building out the project.

**Apply**

Please send resume and/or CV to oahuroboticsmentor@gmail.com