

Hardware Engineer & Testing Intern

ABOUT AMPED INNOVATION

At Amped Innovation, we are dedicated to improving access to clean, modern solar power for the 1.2 billion people globally who currently lack access to the grid. We are a small and fast-growing product development company with over 220,000 solar systems sold across Sub-Saharan Africa and Asia. We are expanding our product family of rugged solar power banks and energy-efficient appliances for those who live beyond the reach of the grid, and we're looking for curious, creative minds to join the team.

<https://www.ampedinnovation.com/>

POSITION SUMMARY:

The role will give you experience in the process of designing, manufacturing and testing solar-powered appliances from the ground up. You will assist with the design and development of hardware, including circuits and execute test protocols across all Amped product lines, and generate associated reports. Your goal is to break things – find out what doesn't work so that we can quickly iterate the design to something more robust.

RESPONSIBILITIES:

- Assist with designing and developing solar appliance hardware, including circuit design, PCB layout, and prototyping.
- Conduct hardware testing and troubleshooting to ensure product quality and reliability
- Present product feedback to the R&D team and iterate the product design.
- Build and modify test setups, equipment, troubleshooting documentation / database and reports.
- Collect and analyze sensor data in support of EasyFreeze product development.
- Audit circuits for warranty and lead root cause analysis to resolve issues.
- Assist with developing hardware documentation, including schematics, BOMs, and assembly instructions.
- Research and source components as needed.

ESSENTIAL SKILLS, KNOWLEDGE, AND ABILITIES:

- B.S. in Electrical Engineering, Computer Engineering, Robotics or equivalent degree.
- Electronics knowledge and experience conducting electronics testing, including familiarity with multimeters, oscilloscopes, and power supplies.
- Strong understanding of circuit design, PCB layout, and hardware testing
- Experience with CAD software for circuit design and PCB layout
- Extreme attention to detail.
- Effective organization, prioritization, time-management, & planning skills.



- Excellent communication. Ability to communicate ideas clearly.
- Experience with surface mount soldering, reading schematics, and an underlying knowledge of electronics components and how to interpret part datasheets are all a plus.

LOCATION

This position is hourly with flexibility to be part time or full-time, and is required to work from the Amped Innovation Redwood City, CA R&D facility.

APPLY NOW

To apply, please submit your resume and cover letter [online here](#).