



Job Description

Job Title: Junior System Technician
FLSA Status: Non-Exempt
Location: 6795 NE Evergreen Pkwy. Hillsboro, OR 97124
Wage: \$12 to \$15 per hour

Application: To apply, email resume and brief introduction to jobs@superior-technical.com. In order to pass through automated filtering systems, applicants must include "Position 6101" in the subject of the email.

Summary: Supporting role, system testing for scanning electron microscope (SEM) , and Focused Ion Beam (FIB) microscopes, system development projects.

Location: Hillsboro, OR

Part Time: About 20 hours per week during regular business hours. Very flexible schedule.

Duties and Responsibilities include the following. Other duties may be assigned.

1. Provide testing support principally on ESP32 test platforms to support development of engineering projects for SEM/FIB systems. All work will be directly supervised by an STS engineer.
2. Primary project involves developing software for an ESP32 based CAN BUS reader that reads messages from a CAN BUS and provides the proper responses to specific messages. This CAN BUS reader is already functioning and the CAN BUS message protocol has been documented.
3. Troubleshoot and diagnose hardware and software systems with guidance from expert Service Engineers.
4. Test sub-systems on SEM and FIB instruments.
5. Collect and analyze data pertaining to the performance of the hardware and software.
6. Effectively communicate and partner with teammates and colleagues.
7. Document testing procedures and test data.

Skills:

Oral Communication Skills
Written Communication Skills
Self Motivation
Organization

Planning
Time Management
Manual Dexterity

Qualifications:

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required.

Education/Experience:

1. Currently enrolled in, or recently completed a computer science, or electronics program.
2. Fluent and demonstrably proficient in editing software code in the Arduino IDE or similar environment, including installing and uploading programs to the boards.
3. Experience diagnosing and repairing mechanical, electro-mechanical, and/or electronic equipment.
4. Experience developing and programming Raspberry Pi is desirable, but not required.
5. Basic understanding and/or experience writing in Python is desirable, but not required.
6. Basic understanding and/or experience writing in C++ is desirable, but not required.

Language Ability:

English fluency. Ability to read and comprehend complex instructions, correspondence, and memos. Ability to write accurate correspondence. Ability to effectively present information in one-on-one and small group situations, to customers, clients, and other employees of the organization.

Math Ability:

Ability to add, subtract, multiply, and divide in all units of measure, using whole numbers, common fractions, and decimals. Ability to compute rate, ratio, and percent, and to draw and interpret bar graphs.

Reasoning Ability:

Ability to apply common sense understanding to carry out detailed and involved written and/or oral instructions. Ability to deal with problems involving a few concrete variables in non-standardized situations.

Computer Skills:

Fluent and proficient using computers and applications.
Mac, Windows, and Linux familiarity.

Travel Demands:

None.

Physical Demands:

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job.

The employee is required to communicate verbally and written, both by hand and electronically.

The employee is required to manipulate small parts by hand for soldering and assembly.

The employee is required lift, unassisted, up to 30lbs.