

Electrical/Embedded Systems Engineer (SLO)



Arroyo Instruments, a San Luis Obispo-based electronics manufacturer, is looking for an entrepreneurial, experienced **electrical/embedded systems engineer** to join the Arroyo Instruments team.

For more than 20 years, Arroyo Instruments has provided precision laser and thermal control systems that are used throughout the photonics industry in research, academic, and commercial applications. Arroyo Instruments products have been used to test Mars rovers, verify lasers for the Laser Interferometer Space Array (LISA), and used by major research universities and national laboratories around the world.

As part of a small, customer-oriented engineering team, this position will involve you in a wide range of activities. While product development will be the primary focus, as a small company, you will also participate in the improvement of our in-house calibration systems, be a part of developing customer applications, providing world-class customer support, and other aspects of company operations.

Product development is focused on smart power supplies, temperature controllers, and related instrumentation. Primary development is in C++ on an in-house developed operating system running on ARM microprocessors, and code makes extensive use of object-oriented design, so experience in OOP is highly desirable. Designs include significant work at the lowest levels of hardware control (SPI, digital I/O, chip-to-chip communications), and you will also be a part of a new design effort specifying new CPU, display, and networking hardware for our next generation products.

While not required, analog design experience is a plus. Most designs include a significant amount of analog circuitry, and understanding that circuitry to evaluate performance, diagnose issues, and even design new hardware would broaden the scope of the position.

Principle responsibilities include, but are not limited to:

- Design and implement new software and hardware for embedded devices and systems from requirements to production and commercial deployment
- Researching and recommending new design technologies
- Architecting new product designs, including multi-channel, multi-processor instruments
- In-house calibration application development
- Supporting customer applications via email and phone

Minimum requirements:

- Bachelor's degree in computer engineering or electrical engineering, or equivalent work experience
- C++ programming experience in an embedded system environment with preemptive, multitasking real-time operating systems

- Experience in an embedded systems engineering position or electrical engineer position with emphasis on embedded design and programming
- Proficiency in reading schematics and understanding digital circuitry.
- Strong verbal and written skills

Experience developing products for test and measurement applications a major plus (i.e., control and measurement instruments such as DMMs, power supplies, and other digitally controlled analog-type instrumentation).

Analog skills also valuable, but not required:

- Able to read and understand analog circuits and be able to diagnose basic analog problems
- Basic proficiency in analog design, with advanced analog design experience highly desirable

This position will work alongside an existing senior embedded systems engineer and analog design engineer. All Arroyo Instruments products include both digital and analog design elements, so while this position has a strong emphasis on digital design, applicants with some analog design experience will be preferred. This position is expected to take technical leadership of the embedded systems activities within Arroyo Instruments.

This is a full-time, exempt position. Compensation is dependent on experience, and includes benefits.

Please do not apply for this position if you do not have the minimum required experience and abilities.

For more information about the company, please visit our web site at <http://www.arroyoinstruments.com>.

You may submit a resume via email at hr@arroyoinstruments.com, fax your resume to (805) 543-1303, or drop off your resume in person.

Arroyo Instruments is near the airport in a new facility located at 1201 Prospect Street in SLO, off Broad Street.

PLEASE DO NOT CALL! You must submit an application/resume to be considered for the position. You will be contacted only if you have been selected to interview for this position. Only applications or resumes for this position will be considered.