



Position Title: ELECTRICAL ENGINEER

Company: Pine Research Instrumentation, Inc. (www.pineresearch.com)

Location: Durham, North Carolina, USA

Description: This position encompasses new product design, development, test, deployment, maintenance, and technical support for Pine's scientific instrumentation products. The position primarily involves analog circuit design working with a skilled team of electrochemists and engineers (software, electrical, and mechanical) to expand and develop a world-class line of electrochemical instrumentation.

Key Responsibilities: Work effectively within a team to develop analog circuitry and high speed data acquisition systems (A/D and D/A) for scientific circuits for electrochemical applications.

Generate block diagrams, schematics and Bills of Material (BOMs) for analog circuit boards.

Interact with customers in both a "technical support" context as well as a "sales" context.

Travel up to four weeks per year (up to two consecutive weeks) to tradeshow and/or customer sites.

Minimum Job Requirements: Bachelor's degree in electrical engineering, or a closely related field.

Minimum of two years of hardware development experience in an industrial or academic setting.

Experience developing both passive and active analog circuits.

Working knowledge of operational amplifiers.

Schematic capture experience.

Experience with test equipment (oscilloscopes, spectrum analyzers, logic analyzers, etc.) and good problem solving skills.

Experience with soldering and reworking printed circuit boards.

Familiarity with circuit simulation.

Familiarity with high speed, high resolution, mixed signal circuits.

Effective interpersonal, communication, presentation, and organizational skills.

Able to work independently.

Fluent in English language (verbal and written).

Valid USA driver's license and acceptable driving record.

Must be legally authorized to work in the USA.



Preferred Skills and Experience:

Experience with Altium Designer software.

Board layout experience and good layout practices, both high frequency and high precision.

Ability to build and specify cable assemblies.

Desire to learn digital and power supply circuit design.

Familiarity with either Verilog or VHDL.

Familiarity with SolidWorks software.

Basic mechanical design skills.

Use of an engineering documentation management system (ePDM) or repository (e.g., Altium Vault).

Knowledge of analytical chemistry instrumentation, especially electroanalytical instrumentation.

Auditing graduate-level courses in science or engineering at nearby universities may be required for training purposes.

Working Environment:

Pine's innovative products are found in government, academic, and industrial research laboratories around the world. As a member of our organization, you will be part of a progressive and close-knit team who enjoy working together to create excellent products for our customers. We provide a professional and dynamic work environment with the opportunity to expand your skill set. We offer a competitive salary and benefit package.

Normal office environment. 75% sitting; 25% standing, walking. Use of normal office, computer and associated equipment.

US and international travel (as determined): driving, air and other forms of transportation as necessary.

EEO/AAP Employer

Applicants who do not meet the basic qualifications for the position will not be considered.