



GEOMETRICS

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Job Title: **Firmware Engineer**

Work Site: San Jose, CA

Overview

Geometrics, Inc., a world-leading developer and manufacturer of instruments and tools for measuring and analyzing geophysical structures and other complex systems, seeks a Firmware Engineer for its San Jose, CA facility.

Job Duties: Analyze and understand existing products and their implementation to determine optimal designs and methods for functionality. Model and document existing embedded control programs in Simulink. Model the embedded control programs to document and simulate functionality necessary for next generation sensors. Work with engineers to implement embedded processors in programmable logic. Implement firmware programming designs to include real-time data acquisition, communications, and interfaces to a host-computer. Code embedded firmware for new products using micro-controllers. Follow model-based design methodology to verify design functionality against design goals. Troubleshoot hardware and software interfaces. Assist engineers or scientists with testing or elimination of bugs as it relates to embedded firmware. Work with hardware design engineers to define firmware requirements and provide feedback.

Job Requirements: Requires Master's Degree in CS, EE or related technical field.

Education or experience background to include: Demonstrated ability through experience with discrete sampling; signal processing using digital filtering; embedded data acquisition systems for low-power architecture; and spectral analysis; knowledge of Digital Signal Processing (DSP) algorithm development using MATLAB; Microcontroller programming using C or C++; Knowledge of FPGA Verilog HDL language programming; Demonstrated ability through experience with oscilloscopes; logic analyzers; and emulators

Send resume to Geometrics, Inc. 2190 Fortune Drive San Jose, CA 95131 ATTN: S. Leavitt, HR Mgr. or e-mail, jobs@geometrics.com **Must ref: job #EB564**

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