

Job Details for: **Sr. Firmware Engineer**

POSITION SUMMARY

We are currently seeking a Senior Software Engineer – Embedded Systems for our Irvine, CA office. This position is primarily responsible for the design and implementation of embedded software that control robotics, liquid handling, and measurements in our instrument projects.

ABOUT THE COMPANY

BIT Group is the leading resource for turnkey development and manufacturing of IVD instrumentation and complex life science products. Our senior staff members have an average of fifteen years' experience in the industry, each with a long history of successfully developing and manufacturing medical devices, in vitro diagnostic instruments and bioresearch platforms.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Development of firmware in accordance with client specifications
- Test and debug firmware
- Prepare design control documents
- Assist in performing verification and validation testing
- Review system and hardware designs from a firmware perspective

JOB QUALIFICATIONS

- Minimum 10 years of experience in programming of embedded systems
- Solid experience of modern C++ (11 or 14) a MUST
- Solid experience of object-oriented design principles
- Solid experience of embedded systems development for electromechanical / robotic systems including stepper motors
- Experience with firmware development using a small-footprint RTOS (e.g. FreeRTOS)
- Experience with communication protocols in a distributed architecture (e.g. CAN Bus)
- Experience with SDLC in an Agile (Scrum) environment a plus
- Experience with writing requirements and design documents in a fast-paced environment

ADDITIONAL SKILLS PREFERRED

- Experience with Python
- Experience of programmable logic/FPGAs using Verilog or VHDL
- Experience of Embedded Linux development
- Knowledge and experience of rules and regulations for medical device development (IEC 62304 knowledge a plus)

INTERPERSONAL SKILLS

- Has a “can do” attitude in a highly constructive culture
- Is comfortable facing Clients in a professional environment with high standards and etiquette
- Highly organized, excellent follow through and follow up skills; results and delivery oriented
- Is great at proactively documenting methods on internal Wiki pages in an automated way
- Able to multi-task a variety of duties and work requests
- Self-motivated and works well under pressure with changing priorities and a workload
- Team player with very good collaboration skills, fostering knowledge sharing with team members
- Exceptional communication and documentation skills using MS Office tools (Word, Excel, PowerPoint)

BENEFITS

BIT Group achieves excellence in organizational development by encouraging the professional and personal growth of our employees. Our commitment to the health and happiness of every employee is demonstrated in the following programs:

- Comprehensive medical, prescription drug, dental, and vision insurance for employees and dependents
- Company paid life and AD&D insurance
- Voluntary (employee paid) supplemental life, AD&D insurance for employee, spouse, and children
- Company paid short term disability
- Company paid long term disability
- 401(k) pre-tax and Roth employee contributions
- 401(k) “Catch Up” contributions for employees age 50 and over
- Flexible Spending Accounts (health care, dependent care)
- Discount tickets to Southern California attractions
- Employee celebrations and events throughout the year

BIT Group is committed to hiring and retaining a diverse workforce. We are proud to be an Equal Opportunity/Affirmative Action-Employer, making decisions without regard to race, color, religion, creed, sex, sexual orientation, gender identity, marital status, national origin, age, veteran status, disability, or any other protected class.