Job Description

**Job Title:** Systems Software Engineer, Development  
**Reports To:** Manager, Software Development  
**Position Location:** Tewksbury, MA

**Position Summary:** We are seeking a Systems Software Engineer to join a thriving research and development team responsible for the development of our award-winning series of handheld x-ray fluorescence, Raman and infrared analyzers used for material identification in a wide array of markets. The candidate will work with the software engineering team to improve our existing products and develop our next generation portable devices.

Our technology is based on NIR, FTIR, Raman and X-Ray fluorescence. Our products are considered state of the art and we utilize the latest technology available to continuously evolve our product line. Please visit www.thermoscientific.com/pai for more information about our products and technologies.

**Key Duties & Responsibilities:**

- Development and support of middleware, communications and other features for our portable scientific devices
- Develop software modules based on object oriented programming (OOP) techniques in C/C++
- Implement middleware applications in a Linux/Qt environment
- Design and implement Linux kernel and user drivers
- Participate in testing phases of development
- Design, implement, test, and improve application framework features that effectively support a wide range of instruments
- Support legacy products based on Windows CE and Mentor Graphics Nucleus

**Skill Requirements:**

- Requires a BS Computer Science or equivalent work experience and 3-5 years experience in developing with C/C++ in an embedded environment, including all aspects from code generation, test, JTAG debuggers, through to documentation
- Experience with Linux kernel development, is required
- Experience with ARM Processors is required
- Experience with Windows CE, Qt & Android desired
- Knowledge of device busses like I2C, SPI, USB, 1-Wire
- Knowledge of JTAG configuration and use
- Ability to debug and isolate hardware issues
- Multi-processor and multi-thread experience
- Must be U.S. Citizen

Please submit resume and cover letter to joe.kelley@thermofisher.com