

# Senior Firmware Engineer



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Competitive salary and benefits package on offer, within an employee-owned organisation.  
Full time role, 37.5 per week.

Closing date: Sunday, 8th of October 2023.

The Senior Firmware Engineer will play a pivotal role in the design, development, testing, and optimisation of embedded software solutions for our existing and future products. The candidate will collaborate closely as part of a cross-functional team to deliver high-quality firmware that meets performance, reliability, and scalability criteria.

## Responsibilities

- Design and implement firmware for embedded systems, ensuring efficient and robust operation.
- Develop, execute, and maintain test procedures for firmware, ensuring reliability and compliance with specifications.
- Profile and optimise firmware for performance, power consumption, and memory usage.
- Collaborate with hardware engineers to ensure seamless integration of firmware with electronic components.
- Create and maintain comprehensive documentation for firmware code, algorithms, and validation results.
- Conduct peer code reviews and provide guidance to junior firmware engineers, fostering best practices and continuous improvement.
- Stay updated with the latest firmware development tools, methodologies, and industry trends.
- Diagnose, troubleshoot, and resolve embedded software issues.
- Safety and Compliance: Ensure that firmware adheres to industry safety and compliance standards.

## Knowledge, Skills & Experience

### Essential

- Bachelor's degree in Electrical Engineering, Computer Science, or a related field. A Master's degree or higher is preferred.
- A minimum of 5-7 years of experience in firmware or embedded software development.
- Solid problem-solving, analytical, and debugging skills.
- Proficiency in embedded C/C++ programming.
- Familiarity with various microcontroller architectures and their peripherals, especially arm.
- Strong understanding of software development life cycle, including version control (e.g. Git), debugging, and testing.
- Knowledge of communication protocols such as I2C, SPI, UART, and USB.
- Excellent communication and collaboration skills.

**Desirable knowledge, skills and experience**

- Industrial communications experience such as Profibus, Profinet, Ethernet IP and PLC integration
- Electronics circuit design
- Awareness of FDA 21 CFR Part 11 compliance requirements
- Experience working to ISO13485 standards

To apply please send a CV and Cover Letter to [hr@aberinstruments.com](mailto:hr@aberinstruments.com), For an informal discussion please call Christina on 07483 044699.

To apply please send a CV and Cover Letter by email to: [hr@aberinstruments.com](mailto:hr@aberinstruments.com)

# Aber employee benefits at a glance

As part of Aber's commitment to making the company a great place to work and to reward our employees for their contribution and hard work, we offer the following benefits.

1000 gifted shares on completion of probation period



ABER profit share



Flexible working



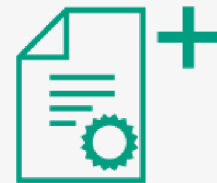
Peace of mind if you die in service (4x salary for your family)



Income protection scheme (75% of salary)



Opportunity to buy further ABER shares



20 days increasing to 26 days (UK based) holiday plus bank holidays with additional shutdown between Christmas and New Year



Opportunity to influence how the company grows and operates through an employee council.



ABER contributes 8% towards your pension scheme, while you contribute just 3%



Cycle to Work scheme

