Detectronic Limited
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Working **in partnership**
with water companies
to **prevent flooding**
and **reduce pollution**

EMBEDDED FIRMWARE ENGINEER

Overview

Detectronic Limited is a growing technology-based company, located in the Northwest, which specialises in the design, manufacture and installation of telemetered wastewater flow and level monitoring solutions for the water industry.

The Network-Monitoring Product Development and Data Analysis sections of our business are expanding rapidly, and we now need to recruit additional software engineers to join our hardware embedded and software product development team.

The successful candidates will join our multi-disciplinary Research and Development department and be based at Detectronic's offices in Colne, Lancashire.

The successful candidates will have:

- A driving interest in IoT, software development and embedded IT systems
- Experience in writing memory and processor efficient C, along with a suite of unit and integration tests to ensure their code is robust
- Excellent analytical and problem-solving skills coupled with a pragmatic approach
- A willingness and ability to learn new and legacy technologies in a largely independent way
- A working knowledge of operating systems, embedded real time operating systems and runtime environments
- A basic knowledge of Electronics and a foundation in Physics
- Developed embedded software dealing with real world problems on 16 and 32bit platforms
- Knowledge of I2C, SPI and UART interfaces
- Good interpersonal skills and the ability to communicate effectively with staff and customers at all levels
- A high level of numeracy and literacy
- The ability to work alone and as an integral part of a team.
- An interest in developing software that can interface with sensors, analyse data and control plant in a real world environment

Desirable additional skills:

- Experience with Java development
- Experience with the Windows API, specifically related to serial communication
- Experience with build tools: Ant, Maven, GNU make and nmake
- Experience with GNU binutils
- Real-time embedded development (MSP430/432 / ARM / AMD64)
- Experience in writing test suites: JUnit, minunit
- Experience in product development environments (JIRA, CI/CD)
- Understanding of different communication protocols (e.g. MODBUS, HEART, PROFIBUS)
- Understanding of Database Systems and handling large datasets
- Full clean (preferably) driving licence

Training:

Full product and service familiarity training will be given.

Benefits:

- Hybrid working option, with a flexible working hours approach
- Holidays will be 28 days per annum (including bank holidays) from January to December, for every full year of service worked you accrue one extra days annual leave capping at 5 days.
- Competitive salary dependent on experience, paid the last week of each month by BACS directly into your bank account.
- Generous company-contributory pension scheme greater than statutory requirements.

A DBS is completed for all new starters to Detectronic due to the industries Detectronic works with, this will be completed during your induction.

Please download the application form from www.detectronic.org. Complete the application form by hand and return it, together with a copy of your CV, to the address on the form, or scan and email to careers@detectronic.org.

Detectronic is an Equal Opportunity Employer

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