

Software Engineer Livingston

GLOBAL OPPORTUNITY:

The *Internet of Things* (IoT) is disrupting industries on a global scale. It enables a step-change in the way we organise, from work practices and leisure activities through to how industry is run. At the same time, we face many challenges relating to our environment, and it is accepted that we cannot continue using the planet's resources in the way we have been doing since the previous industrial revolution. IoT technologies are widely regarded as key to delivering the improvements needed for environmental protection, for society and for industry.

While progress of the IoT revolution has been impressive, to date it has been unable to address the oceans and the underground environment – the *ExtremeEdge*[®]. This is because conventional low-cost wireless technology does not penetrate water and ground.

WFS Technologies (www.wfs-tech.com) has developed the building blocks to extend IoT to the *ExtremeEdge*. Our *Seetooth*[®] and *TerraTooth*[®] wireless communications and power management underpin *Subsea Internet of Things* (SIoT[®]) and *Underground Internet of Things* (UIoT) – architectures that extend wireless IoT networks seamlessly through water and through ground, providing a low-cost alternative to cables, connectors and buoys.

We deliver SIoT and UIoT products and services to the Ocean Industries and Smart Cities markets. We help our customers to improve safety, improve environmental performance, reduce asset integrity management costs, increase productivity and reduce capital costs. Our innovations and designs are secured by a large patent portfolio.

We are seeking experienced, innovative engineers to join our team to support the design, build and delivery of the latest generation of smart wireless devices and solutions.

This is a unique opportunity to join the world leader in a fast-growing market. This role, based at our Livingston HQ, offers the chance to design, implement, test and maintain embedded software and utilize your skills & experience to make a real impact in what will become a global market.

PRIMARY RESPONSIBILITIES:

- Develop new & enhance existing embedded software for IIoT and UIoT products.
- Analyse system/software requirements, architect solutions, design, test and maintain embedded software.
- Take software designs through the full software engineering lifecycle (from initial specification to software/product release).
- Liaise with other engineering functions (systems, hardware & mechanical), production and business colleagues to ensure product & customer requirements are fully satisfied.

QUALIFICATIONS:

- Good honours or postgraduate degree (BSc/MSc) in Software Engineering, Computer Science or equivalent
- 3+ years relevant embedded software engineering experience
- Excellent C/C++ programming skills, in a real time, embedded environment.
- Strong understanding of embedded systems.
- Knowledge of 8/16/32-bit MCU architectures.
- Experience of debugging and testing real-time embedded software designs.
- Knowledge of revision control systems, including SVN, Git, etc.
- Ability to understand detailed system/software requirements, develop software solutions, implement on target hardware and test designs.
- Good knowledge of industry-standard communication interfaces (RS232, RS485, SPI, USB, Ethernet, etc) and associated applications.
- Experience of debugging systems/software using JTAG development tools
- Ability to interpret circuit schematics and component datasheets.
- Ability to debug prototype hardware/software.
- Confident using lab test equipment, such as oscilloscopes, logic analysers, etc.

Desirable;

- Experience of programming TI, MSP430 and ARM processor architectures
- Knowledge of interfacing to microcontroller hardware
- Programming experience using Python language.
- Experience of developing software for Single Board Computers (e.g. Raspberry Pi, Delphino, etc)
- Understanding of digital & analogue electronics.

BENEFITS:

- Salary of £35K to £45k, depending on experience
- Company Pension Scheme
- Company Share Options Scheme
- 33 days holidays per year (inclusive of public holidays)

To apply, please send a CV and covering letter to: jobs@wfs-tech.com detailing which position is relevant to your application in the subject line of the email.