

## VACANCY

**Job title:** Firmware Engineer

**Location:** Stokesley

We are Novacyt, a rapidly growing diagnostics group specialising in infectious diseases. We have a number of successful brands and serve a large global customer base, from hospitals to large corporates.

IT-IS International is an agile diagnostic instrument development and manufacturing company, specialising in qPCR instruments in the life sciences and food industry, using our combined skills and experience to discover a fresh approach to challenging problems. As a result of the IT-IS International acquisition, Novacyt has become a specialist in both molecular diagnostic instruments and reagents, significantly increasing our manufacturing capability to manage the demand for the genesig q16 and q32 instruments.

We're now looking for a Firmware Engineer to join our team on a full-time basis working 37.5 hours per week.

### **Job Summary**

Now part of the Novacyt group, IT-IS forms the instrumentation division of a multinational company specialising in DNA testing on a global scale. Having in-house R&D capability as well as a rapidly expanding manufacturing team means that IT-IS can deliver precision instrumentation and software, and be reactive to market demands. We have a proven track-record of delivering PCR instrumentation, analysis software and services across a range of applications, with recent expansion across the group we are aiming to further grow our research and development activities to deliver the next generation of PCR technology. As part of this process, we are scaling up our development team to introduce a new firmware engineer to help create and maintain our new and existing suite of instruments.

This role will be based from the R&D facilities at the IT-IS Stokesley site. A flexible / hybrid working pattern is available, however due to the nature of the role and working with on-site electronics there will be a minimum of 2 days a week in the office expected.

With guidance from the technical leadership team and reporting to the Software Development Manager, you will be the sole Firmware Engineer on the team with meaningful influence on the technical direction.

### **Main Duties and Responsibilities**

- Develop real-time firmware for microcontrollers for instrumentation
- Configure and develop software for embedded systems running Linux (e.g. Raspberry Pi Compute Module, i.MX SoCs)
- Develop and maintain systems for a fleet of devices with secure connection to cloud services, remote updates and management
- Work with and help improve company procedures and systems, particularly for development activities (change control, version management, documentation, testing, deployment, issue tracking etc.)
- Assist with implementation of quality systems and regulatory compliance, for example ISO 9001, ISO 13485, etc.

## **Qualifications and Experience Required**

### **Essential Requirements**

- Experience in embedded C
- Experience in Linux development for embedded systems
- Familiar with use of real-time operating systems (e.g. ChibiOS)
- Experience working with low-level hardware interfaces (e.g. ADCs, parallel or CSI-2 camera interfaces, data buses)
- Familiarity with software best practices:
  - o Git workflow and change control:
  - o Testing strategies
  - o Issue tracking
  - o Versioning and release management

### **Desirable Requirements**

- Experience with digital electronics
- Experience with REST, JSON, protobuf
- Some experience with IoT technologies
- Developing firmware for medical devices
- Knowledge of ISO 13485 or IEC 62304

### **The Benefits**

- Competitive salary
- 25 days' annual leave
- Ability to buy and sell annual leave
- Cycle to work scheme
- Refer a friend scheme
- Life assurance
- Private medical insurance
- Group pension scheme

It's an exciting time to join our team as we are making huge leaps in the fight against COVID-19 and have recently been awarded a Breakthrough of the Year award at the European Mediscience Awards 2020. We are the best in the world at what we do. If you are looking to learn, grow and succeed as part of a passionate team who are eager to make a difference, we want to hear from you.

Hours of Work	37.5 hours per week
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For further information or to apply for this vacancy please e-mail [recruitment@novacyt.com](mailto:recruitment@novacyt.com)