CANDIDATE BRIEF

Electronics Engineer in Medical Device Development
Faculty of Engineering & Physical Sciences

Salary: Grade 6 (£27,511 - £32,817 p.a.)

Reference: EPSEE1023

Closing date: 05 July 2020

Fixed term for 1 year

We will consider flexible working arrangements

Electronics Engineer in Medical Device Development

School of Electronic and Electrical Engineering

Do you want to join the STORM lab and be part of an exciting project developing a cutting edge robotic system that could revolutionise endoscopy?

We are a small team of engineers and clinicians working on an innovative device to improve patient quality of life and survivability from colorectal cancer: the [Magnetic Flexible Endoscope (MFE)](). As a talented and enthusiastic individual, you will be a vital part of the team, taking up a fast-paced and varied role that brings this technology to first-in-human trials. You will have exposure to extensive career development opportunities in the field of medical device development, both in industry and academia.

We are looking for someone who can start as soon as possible and ideally before September 2020.

What does the role entail?

As an Electronics Engineer in Medical Device Development your main role will be to lead the design, fabrication and testing of MDR compliant electronic components for the MFE. Your main duties will include:

- Circuit design and fabrication;
- Programming embedded systems;
- Designing and running verification tests;
- Writing and maintaining technical design files and test reports;
- Working both independently and as part of a larger team of researchers and stakeholders;
- Supporting research activities, including contributing to research results and outputs and to the generation of original and independent ideas, ensuring a successful programme of investigation;
- Participating in the research group and presenting research output where appropriate;
- Contributing to the research culture of the School, where appropriate;

- Continually updating your knowledge, understanding and skills in the research field.

These duties provide a framework for the role and should not be regarded as a definitive list. Other reasonable duties may be required consistent with the grade of the post.

What will you bring to the role?

As an Electronics Engineer in Medical Device Development, you will have:

- A Masters in Electronics Engineering or similar;
- Excellent academic foundations, particularly in maths, electronics and programming;
- Strong circuit design and fabrication experience;
- Strong embedded programming skills, particularly: C, C++;
- Excellent attention to detail;
- Experience performing formal tests and writing test reports;
- Good interpersonal and communication skills, both written and verbal, and the ability to communicate effectively with a wide range of stakeholders;
- Good time management and planning skills, with the ability to meet tight deadlines;
- A proven ability to fill a leadership role, working well both individually and in a team.

You may also have:

- One or more years postgraduate experience in industry;
- Familiarity with Robot Operating System (ROS);
- Experience with electronic development in strongly regulated markets (medical, aviation). For example, experience developing medical devices and working with ISO 13485, 14971, 60601 and 62304 standards;
- Experience in one or more of the following: robotics, sensing technologies (including IMUs, Hall Effect sensors, optics and white light imaging sensors), miniaturised circuit design and fabrication, embedded systems, FPGA programming.

How to apply

You can apply for this role online; more guidance can be found on our [How to Apply](#) information page. Applications should be submitted by **23.59** (UK time) on the advertised [closing date](#).

Contact information

To explore the post further or for any queries you may have, please contact:

[Pietro Valdastri](#), PhD, Professor of Robotics and Autonomous Systems
Tel: +44 (0)113 343 3706
Email: P.Valdastri@leeds.ac.uk

Additional information

Faculty and School Information
Further information is available on the research and teaching activities of the [Faculty of Engineering & Physical Sciences](#), and the [School of Electronic and Electrical Engineering](#).

A diverse workforce
The Schools in the Faculty of Engineering & Physical Sciences are proud to have been awarded the Athena SWAN [Bronze or Silver](#) Award from the Equality Challenge Unit, the national body that promotes equality in the higher education sector. Our [equality and inclusion webpage](#) provides more information.

Working at Leeds
Find out more about the benefits of working at the University and what it is like to live and work in the Leeds area on our [Working at Leeds](#) information page.

Candidates with disabilities
Information for candidates with disabilities, impairments or health conditions, including requesting alternative formats, can be found on our [Accessibility](#) information page or by getting in touch with us at [disclosure@leeds.ac.uk.](mailto:disclosure@leeds.ac.uk)

Criminal record information

Rehabilitation of Offenders Act 1974

A criminal record check is not required for this position. However, all applicants will be required to declare if they have any 'unspent' criminal offences, including those pending.

Any offer of appointment will be in accordance with our Criminal Records policy. You can find out more about required checks and declarations in our [Criminal Records](#) information page.