Electronics Engineer

Lightpoint Medical Ltd
Chesham, UK

Overview:

Lightpoint Medical is a clinical stage medical device company dedicated to improving health outcomes for cancer patients through image-guided surgery. The company's ground-breaking technology has the potential to detect cancer in real-time during surgery, thereby reducing the need for repeat operations.

Lightpoint Medical is recruiting an Electronics Engineer who will provide recognised skills, which will be applicable to the development and test of complex medical engineering systems to achieve a quality solution and to deliver within cost and plan targets.

The Electronics Engineer will be expected to become a key member of a small multidisciplinary development team and to work with the other engineers and act as the 'go to' person for all electronic aspects of the design.

Education and Experience required:

Degree level in Electronic Engineering + demonstrable practical design experience or equivalent.

While not essential, medical device development experience would be a distinct advantage.

Altium experience would be desirable.

Reporting Structure:

The Electronics Engineer will report to the Head of Engineering.

Nature and Scope of the Job:

- The Electronics Engineer will need to be a flexible and adaptable individual, who is able to take on the role and become a key member of a small multidisciplinary development team.
- Maintain adequate communication with the Head of Engineering and with other cross-functional members of the project team, with regards to project plans, costs and risks.
- Must show initiative.
- Will be required to work with autonomy to ensure that all tasks, for which they are responsible, are completed as per the project plan and budget.

- Will be expected to be able to deal will all aspects of the lifecycle of a product from cradle to grave.
- Demonstrate an ability to envisage concepts that will lead to practical product solutions.
- Be able to translate requirements and engineering specifications into solid engineering solutions.
- Shall provide sound estimates and plans for the tasks.
- Must be able to estimate the cost of their designs.

- Will be required to develop electronic sub-system solutions which will form part of an overall engineering system, which may also incorporate optics, mechanics and software.
- Must have the ability to deal with engineering issues of a complex nature to achieve a high quality solution.
- Ensure the best possible solution is applied to any given design / problem by demonstrating a high level of engineering skill and approach.
- Use ECAD tools to undertake schematic capture and where necessary PCB layout, Altium would be ideal.
- Have a degree of familiarity with circuit simulation and how and where to apply such tools would be useful.
- Be able to program a microcontroller in order to bring a 'bare metal' system to life, such that it can be fully exercised and tested. Programming skills in assembler, C or similar languages would be useful.
- Possess a working knowledge of programmable logic i.e. FPGAs etc. VHDL experience would be useful.
- From time to time it may be necessary to build prototypes, test equipment, etc. The candidate must therefore demonstrate the necessary experience and skills in order to undertake this aspect of the role.
- Must be able to use standard electronics test equipment e.g. Multi-meters, Oscilloscopes, Signal Generators, etc.
- Will be expected to develop test strategies, in order to evaluate equipment and then to document his or her findings, not only from the electronic aspects of a device, but also from an entire system or product.
- Support manufacturing and other relevant departments during the project development and production phases.
- Be methodical and structured in approach.
- Be a good, clear and concise communicator.
- Be proficient in the use of MS Office tools such as Word, Excel, etc.
- The successful candidate must understand and follow the company QMS. While it is not expected that he or she will necessarily have prior knowledge of ISO 9001 / 13485, such experience would be highly desirable.
- Must be able to produce high quality engineering documentation to support his or her work.