



## Electronics Engineer – Job Description

**Location:** Nottingham, remote working possible

**Salary:** £25k – £35k per annum DOE

**Contract:** Full time, Permanent

**Hours:** 40 hours per week, flexible hours possible

**Bonus:** Annual, performance-based

Cerca Magnetics Limited is a joint venture between The University of Nottingham (UoN) and Magnetic Shields Limited (MSL). Cerca's team of world-leading scientists are building the world's most advanced functional brain scanner – a lightweight wearable device that uses Optically-Pumped Magnetometers (OPMs) to revolutionise neuroimaging. Cerca Magnetics' vision is to take this research and build it into a commercial product to be sold to research teams and healthcare providers around the world.

Cerca's product is an integrated neuroimaging system which is made up of a magnetically shielded room, an array of OPM sensors, and the necessary hardware and software to control the system, capture the imaging data and display it to the user.

Due to continued growth and expansion, following an initial spin-out in 2020, Cerca Magnetics are now currently recruiting for an Electronics Engineer to join their team.

As an Electronics Engineer you will be tasked with assisting with hardware development and integration of our imaging system. This will include designing, testing and maintaining electronics packages to be integrated within our existing units.

### Key Tasks/Duties of this role:

- Develop effective testing and quality control procedures
- Produce user manuals including wiring diagrams and safety procedures
- Working as part of a multi-disciplinary team to build and deliver the product

### Essential skills:

- Hold a minimum 2:1 degree or equivalent in Electronics Engineering, Electrical Engineering, Physics or similar discipline
- Postgraduate qualification or relevant industry experience
- Practical experience with a range of electronic measurement and signal generation equipment
- Experience of using LabVIEW, Python, C or similar
- Strong initiative and ability to work autonomously on projects
- A growth mindset. A willingness to have a go and learn new skills

### Desirable Skills:

- Practical experience with design software including PCB design and manufacturing
- Experience with low noise amplifiers, ADC and DAC electronics
- Experience working with National Instruments hardware (e.g. NI-DAQmx, cDAQ/cRIO controllers) for digital signal acquisition and instrument control
- Experience with firmware tools and devices such as microcontrollers and FPGAs
- Experience of developing commercial/industrial grade electronics systems

In line with the Equality Act 2010, Cerca understand and appreciate the importance of equality, diversity and inclusion, both in work and in life. We therefore actively encourage applications from all backgrounds, as we believe a more diverse team is a more successful team!