



Junior Engineer – Job Description

Location: Nottingham, remote working possible

Salary: £22k – £28k 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 a Junior Engineer to join their team.

As a Junior Engineer you will be tasked with assisting with project management for new products from concept designs to finished product. This will include detailed manufacturing drawings, material specification/selection, material/process testing and writing detailed reports.

Key Tasks/Duties of this role:

- Design 3D models for bespoke products for customers worldwide
- Client/sales team liaison to capture product requirements and create design specifications
- Produce detailed engineering/manufacturing drawing with BOM's
- Produce standard operating procedures to detail manufacturing and assembly methods
- 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 Mechanical or Design Engineering or similar discipline
- Strong experience using 3D CAD software (Ideally Siemens NX or Solid Edge)
- Full lifecycle design experience – concept design, 2D/3D modelling, engineering drawings and designing for manufacture as well as maintenance and design improvement considerations
- Capable of producing detailed drawings with all relevant information required to manufacture/assemble/purchase
- Experience of tolerance analysis including manufactured parts and assembly tolerance stack up
- A growth mindset. A willingness to have a go and learn new skills

Desirable Skills:

- Experience using FEA and other analytical software packages
- Experience with advanced manufacturing techniques and materials
- Experience of working in an ISO 9001 accredited Engineering company
- Experience with use of ERP and/or MRP systems ie SAGE, Oracle, Progress Plus

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!