



Engineering Manager

Location: Nottingham

Salary: £70,000 per Annum

Contract: Full time, Permanent

Hours: 40 hours per week

Package: Competitive holidays, performance-based (non-contractual) bonus scheme, pension scheme

Background:

The team at Cerca Magnetics Limited (Cerca) all have a shared goal: to make a real difference to people's lives through technological advances. If you want to do the same, joining our passionate team of technical and business experts might be the right career move for you.

Cerca was founded in 2020 as a spinout from The University of Nottingham. Since the company was founded the team have commercialised the world's most advanced functional brain scanner - a lightweight wearable device that uses Optically-Pumped Magnetometers (OPMs) to measure the magnetic fields within the brain. Unlike other scanners, our system can be worn by both adults and children and the participant can move whilst being scanned. The information provided could contribute towards medical advances in treating epilepsy and other neurological conditions such as mild traumatic brain injury and dementia. We are currently working towards gaining clinical approvals for use in epilepsy diagnosis and treatment.

Following initial sales in the research market, Cerca's vision is to offer the system to healthcare providers around the world and revolutionise functional brain imaging; to make a real difference to those that suffer from debilitating neurological problems. We share a dream of contributing towards the treatment of a young child who instead of facing a life suffering from daily epileptic seizures, could live their life free from the condition.

Description of the role:

We are seeking an experienced Engineering Manager to lead our engineering team in the development and refinement of our OPM-MEG system. This role requires a dynamic leader ideally with a background in medical device engineering, capable of guiding multidisciplinary teams through the complexities of product development, from concept to commercialisation

This position leads the dynamic engineering team to deliver our mission of revolutionising functional brain imaging.

Key role focus areas:

- Team Leadership: Manage and mentor a multidisciplinary engineering team, fostering a collaborative and innovative work environment.
- Project Management: Oversee engineering projects from conception to completion, ensuring alignment with company goals and timelines.
- Product Development: Lead the design and development of the OPM-MEG system, integrating hardware and software components.
- Regulatory Compliance and Design in a Controlled Environment: Ensure all engineering activities comply with relevant medical device regulations, standards and norms, including ISO 13485, ISO14971, IEC 62304, IEC62366, and IEC60601-1 and associated standards.
- Cross-Functional Collaboration: Work closely with research, quality assurance, and operations teams to align engineering objectives with company goals.
- Continuous Improvement: Implement best practices in engineering processes, promoting efficiency and product excellence.

- Innovation: Encourage and facilitate the exploration of new technologies and methodologies to enhance product capabilities.

Key competencies:

- Strategic thinking and decision-making.
- Ability to manage multiple projects simultaneously.
- Strong organisational and planning skills.
- Adaptability and resilience in a fast-paced environment.
- Commitment to continuous learning and professional development.

Qualifications and Experience:

- Bachelor's degree in Engineering (Mechanical, Electrical, Biomedical, or related field); Master's preferred.
- Minimum of 5 years' experience in medical device engineering, with at least 2 years in a leadership role.
- Proven track record in leading complex engineering projects from concept to market.
- Strong knowledge of medical device regulations and quality standards (e.g., ISO 13485, FDA 21 CFR 820, etc).
- Excellent leadership, communication, and problem-solving skills.
- Experience with neuroimaging technologies or wearable medical devices is highly desirable.
- Familiarity with optically-pumped magnetometers and magnetoencephalography is a plus.
- Proficiency in CAD software and engineering analysis tools.
- Understanding of electromagnetic compatibility and shielding techniques.

In line with the Equality Act 2010, Cerca understand and appreciates 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! We look forward to hearing from you.

