SENIOR RESEARCH SCIENTIST – IMPLANTABLE BIOSENSING SYSTEMS

We are seeking a Senior Research Scientist with a background in implantable devices and/or miniature biosensing platforms to join our highly specialised R&D team developing next-generation implantable medical technology.

This is an opportunity to play a key role in the development of novel biosensing technologies within a multidisciplinary deep-tech healthcare company. Working across engineering, materials, electronics, and biological systems, you will contribute directly to research activities spanning theoretical modelling, experimental validation, and prototype development. The role offers substantial scientific depth, technical autonomy, and the opportunity to help shape emerging healthcare technologies with significant long-term potential.

ABOUT US

We are developing novel sensing platforms designed to generate continuous biological insight in an area of medicine that remains poorly understood. Our work combines advanced engineering, sensing technologies, materials science, embedded systems, and human physiology to develop next-generation implantable monitoring technologies.

We are a highly collaborative R&D organisation where scientists and engineers work across traditional discipline boundaries to investigate complex system-level challenges. The successful candidate will contribute directly to research direction, experimental development, and core system design within a technically strong and intellectually driven team.

THE ROLE

As a Senior Research Scientist, you will lead investigations into novel device and system concepts, combining modelling, experimental research, and hands-on prototype development to evaluate future technology capabilities.

Responsibilities are likely to include:

- Modelling and simulation of complex system behaviour
- Development of PCB-based systems, research prototypes, fixtures, and test rigs
- Experimental design, verification testing, and performance characterisation
- Scientific programming and data analysis using Python
- Interpretation and presentation of research findings
- Generation of technical reports, invention disclosures, and intellectual property
- Supporting and mentoring junior researchers

TO BE CONSIDERED FOR THIS ROLE, YOU WILL LIKELY HAVE:

KNOWLEDGE & EXPERIENCE

- A PhD in Engineering, Physical Sciences, or a related discipline
- At least 5 years' experience within practical research or advanced R&D environments
- A strong track record of scientific contribution through publications, patents, or technology development
- Experience translating research into applied technologies
- Experience with finite element modelling and scientific programming tools such as Python
- Experience designing and validating research prototypes and test systems

TECHNICAL EXPERIENCE

Experience in one or more of the following areas would be advantageous:

- Implantable device technologies
- Electronics miniaturisation
- Biocompatible materials and encapsulation
- Wireless data systems
- Physiology or biological environments
- Development of active implantable medical devices

SKILLS & APPROACH

- Strong analytical and problem-solving capability
- Excellent experimental design and data interpretation skills
- A creative, research-driven mindset
- Ability to work independently with a high degree of autonomy
- Strong communication and technical documentation skills

THE OPPORTUNITY

This role offers the opportunity to work on technically challenging problems within a scientifically rigorous and collaborative environment, contributing directly to the development of innovative healthcare technologies.