

SENIOR RESEARCH SCIENTIST – ELECTROCHEMICAL SENSORS & BIOSENSING SYSTEMS

We are seeking a Senior Research Scientist with a background in electrochemical biosensors and/or electrochemistry to join our R&D team developing next-generation implantable biosensing technology.

This is an opportunity to play a key role in the evaluation and integration of electrochemical sensing technologies within an innovative deep-tech healthcare company. Working across electrochemistry, sensor systems, electronics, and biological environments, you will lead investigations into sensor performance, modelling, and experimental characterisation for implantable monitoring applications.

▮ ABOUT US

We are developing implantable sensing platforms designed to generate continuous biological insight in an area of medicine that remains poorly understood. Our work combines electrochemical sensing technologies, advanced engineering, materials science, embedded systems, and physiology within a highly collaborative R&D environment.

▮ THE ROLE

You will lead investigations into electrochemical sensing technologies for implantable systems, supporting activities including:

- ▶ Experimental characterisation and evaluation of electrochemical sensing technologies
- ▶ Investigation and modelling of transducers, reference electrodes, and measurement circuitry
- ▶ Design and development of experimental test rigs and laboratory set-ups
- ▶ Experimental design, verification testing, and performance characterisation
- ▶ Scientific programming and data analysis using Matlab and Python
- ▶ Technical reporting, invention disclosures, and IP generation
- ▶ Supporting and mentoring junior researchers

▮ ABOUT YOU

You will likely have:

- ▶ A PhD in Physics, Chemistry, Biochemistry, 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
- ▶ Strong theoretical and practical understanding of electrochemical biosensors and electrochemistry
- ▶ Experience with experimental electrochemistry and sensor characterisation
- ▶ Experience with modelling and simulation tools such as SPICE, Altium, or Verilog-A
- ▶ Strong analytical and experimental problem-solving capability
- ▶ Experience in implantable devices, biocompatible materials, electronics miniaturisation, physiology, wireless systems, or related technologies would be advantageous.

▮ 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 implantable sensing technologies.