

Job Title: Head of Electrochemistry

Location: London, UK

Salary: £50,000-60,000 per annum, dependent on experience

Company Overview:

Infiniti Recycling Ltd is an innovative start-up at the forefront of sustainable technology, dedicated to transforming the recycling of lithium-ion batteries. We specialise in the recycling of lithium-ion batteries, aiming to address the growing need for environmentally friendly and efficient recycling processes. Join us in our mission to make a positive impact on the environment and contribute to the circular economy.

Job Description: As Head of Electrochemistry, you will drive the scientific vision and research direction for our lithium-ion battery recycling program. You will focus on developing scalable, efficient, and sustainable processes to reclaim and manufacture high-quality active materials. With a core emphasis on electrochemistry and materials science, you will oversee the development and implementation of advanced testing and analytical methods to ensure quality and performance at every stage.

Key Responsibilities:

- **Strategic Leadership:** Shape the scientific vision and R&D strategy for lithium-ion battery recycling, focusing on electrochemical and green active material manufacturing approaches.
- **Advanced Testing & Analysis:** Lead & pioneer scientific testing and validation efforts for active materials, using advanced analytical techniques (SEM, RAMAN, XRD, etc.) and electrochemical techniques.
- **Electrochemical Testing Expertise:** Oversee the design and execution of electrochemical testing protocols for battery materials, such as cyclic voltammetry, galvanostatic cycling, electrochemical impedance spectroscopy (EIS), and other techniques crucial to evaluating battery performance.
- **Technical Oversight:** Direct the development of recovery processes for active materials, ensuring they meet quality, cost, and sustainability targets suitable for large-scale manufacturing.
- **Production Quality Compliance:** Establish and maintain rigorous production quality control measures, ensuring all materials adhere to established quality standards. Implement batch testing protocols to verify consistency, performance, and safety, driving improvements in manufacturing processes as needed.
- **Regulatory & Safety Compliance:** Ensure all processes and materials comply with safety, environmental, and industry regulations, maintaining strict adherence to evolving standards.
- **Fundraising & Grants:** Support the company's fundraising efforts and identify and pursue funding opportunities, including government grants and private investment, to support research and development initiatives. Collaborate with leadership to develop proposals, manage grant applications, and foster partnerships to secure ongoing financial support for scientific and technological advancements.

Qualifications

- PhD in Electrochemistry, Materials Science, Chemical Engineering, or a related discipline with a focus on lithium-ion batteries and recycling.

- Proven expertise in electrochemistry, particularly with lithium-ion battery materials and recycling technologies.
- Strong background in designing and implementing scientific testing methods, including Raman spectroscopy, Scanning Electron Microscopy (SEM), X-Ray Diffraction (XRD), Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES), and electrochemical analysis techniques.
- Extensive experience scaling up chemical recovery processes for mass production, with a commitment to green chemistry and sustainable manufacturing.
- Exceptional leadership, problem-solving, and cross-functional collaboration skills.

Preferred Skills

- Experience in the recycling industry or with lithium-ion battery technology.
- Experience within a start-up environment
- Experience in chemistry lab design and build

Equal Employment Opportunity

Infiniti Recycling is committed to providing equal opportunities in employment and to avoiding unlawful discrimination. We value diversity and are committed to creating an inclusive working environment where everyone is treated with dignity and respect.

We aim to ensure that no job applicant, employee, contractor, or worker is treated less favourably on the basis of a protected characteristic, in line with the Equality Act 2010.

Benefits

We offer flexible working options, a pension scheme, and opportunities for personal and professional development.

****What We Offer:****

- Competitive salary and benefits package (25 days holiday)
- Opportunities for professional growth and development.
- A collaborative and innovative work environment.
- The chance to make a tangible impact on environmental sustainability.