

Job Description

Job Title	Battery Scientist / Engineer (full time)
Reports to	Head of Cell development
Department	Cell Development
Location	Sawston, Cambridgeshire

Who we are

Echion is a world-leading battery technology developer based in Sawston, near Cambridge. We have developed advanced materials enabling the next-generation superfast charging batteries. This enables a fundamental rethink of how products are designed and used, from industrial e-mobility applications, consumer electronics, and more.

It's a fantastic time to join Echion. The company is now successfully trading with its flagship XNO® product. We have big commercial ambitions and an exciting roadmap of new products to develop.

We're looking for like-minded people to be part of our journey towards a successful future. Learn more at www.echiontech.com.

Job Summary

You will be actively involved in developing new Li-ion technologies, involving advanced electrode and cell level characterisation, optimising systems against challenging performance requirements and on contributing to improvements to Echion's product portfolio.

You will have the opportunity to make a significant impact on the technical and operational direction of the company.

Key Responsibilities

- Characterise and provide in-depth electrochemical evaluation of battery materials; including systematic evaluation of key parameters in active material end electrode preparation.
- Propose innovative solutions, lead, and implement studies on new active materials, formulations, concept, processes, understanding of limiting mechanisms through advanced characterisation techniques.
- Design and implement complex experimental test campaigns, including reporting to key stakeholders.
- Operate our laboratory cell prototyping line, including electrode and cell manufacture, and running of electrochemical tests.
- Plan and manage Cell team resources to undertake verification activities in support of active customer engagements, collaborations, and strategic product-market fit initiatives.

- Management and analysis of cell related test data; electrical, materials, thermal characterisation etc. The cells can be coin, cylindrical and pouch cells.
- Regular reports and presentations to the team and management.
- Follow and maintain quality control procedures (SOP's) to the highest safety standards.
- Keep up to date with the current state-of-the-art in the field (academic literature, patents)

Education & Qualifications required	Bachelors degree or PhD in the field of Electrochemistry, Chemistry, Materials Science, or similar
Experience required	<ul style="list-style-type: none"> • Minimum 3 years of hands-on experience in experimental physical sciences R&D, whether part of academic or industrial work • Proficient on lab-scale electrode fabrication and cell assembly techniques, with a proven track record • Experienced in electrochemical Li-ion cell measurements • Experience in independently running laboratory experiments, working to strict deadlines, and high-quality standards • Experience working in a start-up/ scale up business would be beneficial
Skills & knowledge required	<ul style="list-style-type: none"> • Knowledge of electrochemistry and its application to the optimisation and characterisation of battery materials, electrode processing and cell or battery systems • An ability to quickly diagnose and understand key challenges combined with strong problem solving skills is key • Proficiency in handling and analysing diverse data sets and summarising key results and findings
Success factors for the role	<ul style="list-style-type: none"> • Hard working, organised and able to work as part of a diverse international team • Creativity in tackling unique challenges • Able to prioritise competing requirements to deliver in a fast paced environment
Other key information	This is a full-time laboratory based roll at Echion's premises in Sawston, Cambridgeshire.
Our values	Pragmatic Collaborative Customer Focused Engaged Enterprising Reliable Excellence

What we offer

- Competitive salary
- Private Health Insurance and Health Care Cash Plan for dental and optical fees
- Income Protection Scheme
- Life Assurance Scheme
- Dynamic, cross-functional working environment
- 27 days annual leave plus UK bank holidays
- Option to buy additional holiday days
- Enhanced pension plan
- Employee Assistance Programme and wellbeing support app
- Career advancement and opportunities

Interested in applying?

We'd love to hear from you.

Our vacancies are advertised on our website. You can also email us your application including CV and cover letter to recruitment@echiontech.com.