

## Job Description

Job Title	Senior Scientist (full time)
Reports to	R&D Programme Manager
Department	Research & Development
Location	Echion Technologies, Sawston, Cambridge, UK

### 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 a super 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](http://www.echiontech.com).

### Job Summary

Echion is seeking a talented Senior Scientist to join our Research & Development team working on the innovation and development of new battery materials, leading to scale-up and commercialisation.

We are ideally looking to appoint a Senior Scientist with a strong background in new battery materials discovery and understanding and applying new battery materials in electrochemical cells. Experience of working in an industrial R&D setting would be seen as being particularly advantageous. You will have the opportunity to make a significant impact on the technical and operational direction of the company as we move to rapidly expand. You will be actively involved in discovery, synthesis, characterisation, and electrochemical testing of a range of battery materials, and in contributing to improvements to Echion's laboratory and processes.

The ideal candidate will have an innovative approach and a scientific background, with practical laboratory experience in physical sciences research and development.

Achieving your goals will be challenging but immensely rewarding, and you will be expected to demonstrate a high degree of initiative, autonomy, perseverance, and dedication as part of the team.

### Key Responsibilities

- Operate our laboratory research facilities to produce, characterise and electrochemically test new battery materials (including equipment, SOP's, H&S).
- Propose innovative solutions, lead and implement studies on new active materials, formulations, concepts, processes and understanding of limiting mechanisms through in-

depth physicochemical and electrochemical evaluation and advanced characterisation techniques (innovation, research & new product development).

- Plan experiments, analyse data and summarise results, as a senior member and leader within the R&D team.
- Work with the CTO and R&D Programme Manager to innovate and optimise product design and quality to meet challenging battery performance targets.
- Continuously improve the lab setup, materials production, and characterisation process.
- Work closely with commercial team and customers in deep technical investigations.
- Take an active role in patents and literature surveys/reviews, keeping up to date with the state-of-the-art.
- Take an active role in quality control development and technical support.
- Work cross-functionally to enable the innovation, scale up and commercialisation of Echion's products as a senior member of the team.

Education & Qualifications required	<p>Master's degree in a relevant field e.g., Chemistry, Materials Science, and 5 years industrial research experience</p> <p>or PhD in a relevant field with at least 2 years post PhD industrial experience</p> <p>or similar level of experience working in a chemical / materials / electrochemistry research laboratory environment</p>
Experience required	<ul style="list-style-type: none"> <li>• Experienced with inorganic materials synthesis techniques</li> <li>• Experience of solid-state characterisation methods e.g., PXRD, SEM, XPS</li> <li>• Experience of battery materials synthesis and characterisation would be advantageous</li> <li>• Experience of lab scale cell manufacture and electrochemical testing of battery materials would be advantageous</li> <li>• Knowledge of battery chemistry is required</li> <li>• Experienced in industrial best research practices, and running self-driven programmes of work</li> <li>• Experienced working with external companies and collaborators</li> <li>• Experience working in an ISO qualified environment would be beneficial</li> </ul>
Skills & knowledge required	<ul style="list-style-type: none"> <li>• Ability to measure, record and analyse detailed scientific data</li> <li>• Ability to plan and execute research projects in a timely manner within a fast-paced working environment</li> <li>• Ability to present results to relevant stakeholders as oral presentations and written reports</li> <li>• Ability to mentor and train others</li> <li>• Knowledge of battery electrochemistry including degradation mechanisms, interfacial reactions, component choice and cell design would be beneficial</li> <li>• An awareness of the global battery materials industry</li> </ul>

<p>Success factors for the role</p>	<ul style="list-style-type: none"> <li>• Experience in following health and safety regulations such as COSHH and risk assessments</li> <li>• Experience in independently planning work, running laboratory experiments, recording data, working to strict deadlines, and high-quality standards</li> <li>• An innovative mindset with strong problem-solving skills</li> <li>• Hard-working, organised, and highly self-motivated</li> <li>• Excellent ability to work as part of a diverse international team</li> </ul>
<p>Our values</p>	<ul style="list-style-type: none"> <li>• Pragmatic</li> <li>• Collaborative</li> <li>• Customer focused</li> <li>• Engaged</li> <li>• Enterprising</li> <li>• Reliable</li> <li>• Excellence</li> </ul>

What we offer

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

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](mailto:recruitment@echiontech.com).