

Job Title: Battery Test Engineer (Stereax)
Reporting to: Stereax Technical Director / Technology transfer & Manufacturing Director
Reports: N/A

Company description

Ilika (www.ilika.com) is a pioneer in solid state batteries. The company has developed miniature micro-fabricated solid-state batteries (Stereax) for Internet of Things (IoT) applications and is now developing large format solid-state cells for electric vehicles.

Ilika is a publicly listed company with its head office in Romsey and a facility at the University of Southampton. In 2021 Ilika is establishing a new facility for the scale up and manufacture of Stereax solid state batteries. We offer the successful candidate a competitive package and the opportunity to be part of a world class technical team using state of the art equipment in a supportive environment. This is an excellent opportunity to join the team during a period of growth, and to make a meaningful contribution during this exciting transition.

Overview of the role

The individual will initially work in a team of Battery Engineers to plan and implement test methods and facilities to support Ilika's manufacture of Stereax thin film solid-state batteries. Longer term as production volumes ramp will report to Ilika's Tech Transfer & Manufacturing Director.

Responsibilities may include:

- Recognise the importance of and create an inspirational can-do culture in the organisation, with a focus on process improvement, adding value to the business.
- Taking the initiative in proposing and implementing solutions for areas for improvement in the Company's operations.
- Maintaining ISO standards.
- Adhere to good laboratory practice and implementation of risk assessments and COSHH where appropriate.
- Planning & implementation of required test facilities and equipment to support Ilika's manufacturing and commercialisation roadmap. Once facility established to become Laboratory Manager for Ilika battery test facility.
- Support Stereax Product testing from development through to production.
- Maintain an understanding of Stereax battery product requirements alongside battery architectures, materials, and fabrication steps to enable design of appropriate test plans.
- Development of protocols to undertake electrochemical verification and qualification of Ilika's solid-state batteries.
- Direct areas of improvement for existing test setups and protocols.
- Extract performance test data and present to the wider team to communicate findings.
- Support protection of Intellectual property.
- Define and document key operating procedures.

Job requirements:

- Understanding and proven experience of electrochemistry test equipment, data acquisition and battery test protocols are essential.
- Understanding of battery materials with particular emphasis on lithium-ion chemistry is desirable.
- Demonstrated experience in designing test protocols and conducting a range of electrochemical (e.g., electrochemical impedance spectroscopy, voltammetry etc) and environmental (e.g., temperature, humidity, vibration etc.) tests.
- Experience with a range of electrochemical testing equipment e.g., VMP, Arbin, Gamry, pulse tester etc.
- Ability to specify test equipment and protocols to provide information to accurately evaluate product performance.
- Ability to evaluate and assess the electrochemical performance and integrity of Stereax solid state battery products for suitability for the intended applications.
- Familiarity with statistical analysis techniques and software such as Minitab.
- Knowledge of data organisation and handling techniques for large data sets
- Conscientious and have a good eye for detail.
- Demonstrated ability to work well in a team.

Applicant must be eligible to work in the UK.

Ilika is an equal opportunities employer and positively encourages applications from suitably qualified and eligible candidates regardless of sex, race, disability, age, sexual orientation, gender reassignment, religion or belief, marital status, or pregnancy and maternity.

Contact: careers@ilika.com