

Position available: Scientist/Engineer with experience in solution processed thin-film deposition techniques; ink formulation and printing.

Ilika has developed a manufacturing process for the production of thin film solid state micro-batteries. In the last 18 months the Stereax® M250 and P180 cells have been launched.

Using our combinatorial and high throughput materials development platforms for thin films and bulk materials we have recently identified an opportunity to develop larger format solid state batteries targeting cells with capacities on the order of 1 Ah (as indicated on the Ilika Stereax® Roadmap on our website). The large format roadmap develops energy dense, safe cells for electric vehicles and stationary power. The development of the large format batteries requires a change in our manufacturing process from thin film vacuum based techniques towards printing and additive manufacturing approach with a strong focus on bulk ceramic materials processing.

We are looking for people to join this team that bring with them experience in ink-based deposition techniques (e.g., screen printing, and draw-down coating) and the production and processing of ceramic composites).

Your main duties will 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 9001 standards.
- Designing and executing experiments to improve the formulation and printing of ceramic inks for R&D and Production
- Documentation, interpretation and reporting of scientific results from experiments.
- Ensure and oversee a continuous and reliable production protocol and environment for the existing manufacturing and analytical tools.
- Becoming an expert user of one or more characterisation tools (E.g., Raman Spectroscopy, SEM, ICP-MS)
- Help specify the potential manufacturing requirements for the further scale up of the process to larger production tools.

To be successful in this role, you will possess the following:

- Relevant experience in an industrial lab environment (desirable experience includes ink formulation and printing/casting, handling chemicals, monitoring lines/quality control and equipment/lab maintenance).
- The ability to design experiments in line with the team and companies' strategic direction and carry out those experiments effectively and efficiently.
- Enthusiastic persona, with a can-do attitude, and willingness to learn.
- A team player with the ability to work with both scientists and technicians ranging in experience and backgrounds.
- Good interpersonal skills and ability to communicate at all levels.

- Work to deadlines and agreed service standards whilst maintaining confidentiality.

Ilika is a publicly listed company with its head office in Southampton. We offer the successful candidate a competitive package and the opportunity to be part of a world class research team using state of the art equipment in a supportive environment.

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