

Job Description

Job Title: Scientist/Informatics Scientist
Reporting to: Engineering and Informatics Director
Start Date: Summer 2020

Company description

Ilika (www.ilika.com) is a pioneer in solid state batteries. The company has developed miniature thin-film 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. 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.

Role Description

The successful applicant will join Ilika's scientific team and will focus on the application and further development of informatics methods useful for the development of Ilika's Stereax batteries. The successful applicant will work within one of Ilika's battery development teams and work on scientific and informatics work for that team in an intended 50:50 split.

Responsibilities may include but are not limited to:

- Continued development of Ilika's internal informatics platform to enable colleagues to better analyse data
- Develop new analysis techniques based on Statistical and Machine Learning methods to answer questions regarding Ilika's solid state batteries
- Assist the business development and Marketing teams with innovative ways of presenting data to a wider, non-specialist, audience
- Work as a member of the battery development teams on either thin film or large format batteries.
- 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.
- Fault-finding, root cause analysis.
- Interact with wider team to communicate findings.

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

- MPhil or PhD in materials science, physics, physical chemistry, chemical engineering or statistics, ideally with industrial experience;
- Knowledge and proficiency with MATLAB (an advantage) or other scientific or engineering data analysis software (e.g. Python)

- The ability to develop functions and tools that can be distributed to a specialist audience
- An understanding of Machine Learning and Statistical techniques and how they can be applied to real world data
- Familiarity with battery characterisation and testing (XRD, EDS, SEM, electrochemistry, ellipsometry, spectroscopy and conductivity measurements) an advantage.
- Good attention to detail, clear communication skills, self-motivated and proactive.
- Demonstrated ability to work both independently and collaborate within a team.

Applicant must be eligible to work in the UK.

CV to careers@ilika.com