

Job Title: Ceramic Processing Scientist
Reporting to: Technical Director
Based: The Quadrangle, Romsey

Company Description

Ilika (www.ilika.com) is a pioneer in solid state batteries. The company has developed miniature thin-film solid state batteries 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 an operating base in Romsey. We offer the successful candidate a competitive package and the opportunity to be part of a world class team using state of the art equipment in a supportive environment.

Role Description

Ilika is developing manufacturing processes for the production of solid state batteries. The large format roadmap develops energy dense, safe cells for consumer electronics, 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 ceramic materials processing.

We are looking for a ceramic materials specialist to join our team and to bring with them experience in solid-state chemistry and materials science with an emphasis on the preparation of multifunctional composite structures.

The ceramic processing specialist will have input over a variety of battery manufacturing processes with emphasis on identification of formulation components, preparation of green bodies and optimising thermal processing to achieve functional composite devices.

Responsibilities:

- Ceramic composite processing and sintering;
- Nanomaterials and nanocomposite interface studies;
- Material characterization techniques such as SEM, TEM, XRD, AFM, DTA, Micro-CT, DSC, powder rheology and RAMAN;
- Analysis of nanocomposites- Mechanical property, Thermal conductivity and Electrochemical.

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

- Minimum Masters in chemistry or materials science with relevant experience of manufacturing composite ceramics, industrial experience beneficial;
- Solid foundation of ceramic composite materials engineering and/or materials science;
- Experience with solid state batteries or fuel cells is beneficial;
- Experience in material manufacturing and analysis with specific expertise in nanomaterial and multifunctional composites;
- Excellent technical writing and communication skills;
- Good attention to detail;

- Flexibility;
- Team player and able to work using own initiative;
- Good interpersonal skills and ability to communicate at all levels;
- Proficiency with Microsoft Office programs, including: Word, Excel, PowerPoint;
- Work to deadlines and agreed service standards;
- Confidentiality.

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