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Code:

Project: SPINMATE

Area: Advanced Materials for Energy

Area leader: Prof. Joan Ramon Morante

Group: Energy Storage, Harvesting and Catalysis

Group leader: Prof. Joan Ramon Morante

Postdoctoral Researcher Position in solid-state batteries in the frame of the SPINMATE project

The energy storage and harvesting group announces a new postdoctoral position to work in the framework of the SPINMATE project. The project is committed to developing and deploying new manufacturing technologies, enabling the large-scale production of solid-state batteries. The project involves the main battery stakeholders in Europe. It aims to cover the whole battery value chain, from components optimisation to pilot line design for the large-scale production of solid-state batteries for electromobility applications.

We are looking for an excellent and highly motivated candidate to lead IREC activities in the SPINMATE project. The candidate will focus on developing and optimising cell components, specifically the advanced cathode electrode and its compatibility with the solid electrolyte.

Therefore, the candidate should have a PhD in Materials Science or similar experience in cathode electrode formulation and fabrication using Ni-rich oxides, Li-ion battery cell assembly and electrochemical testing. Experience in solid-state bilayer (cathode + solid electrolyte) fabrication and characterisation will be highly valued.

The selected candidate will focus on:

- Processing of cathode/SE bilayers
- Characterisation of samples and interfaces
- Sample degradation and post-mortem analysis

In addition to the work described above, the selected candidate will summarize results in deliverables and oral presentations for the consortium and coordinate activities with other partners and IREC groups. Therefore, the candidate should have good communication and project management skills, and she/he must be fluent in English, results-oriented and a team player. It is also expected relevant project results to be published in peer-reviewed journals.

What we offer:



Shaping Energy for a Sustainable Future

We offer a 2-year contract starting September 2022. The salary will be paid in accordance with the IREC's salary policy, depending on the candidate's qualifications and professional experience.

Application

Applicants must send a detailed Curriculum Vitae and a motivation letter by email directly to irecjobs@irec.cat (with copy to Dr. Jordi Jacas, jjacas@irec.cat) indicating "**Ref.58/2022 SPINMATE Project**"

Deadline for applications: 21/08/2022