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Code:

Project: IntelliGent

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 IntelliGent project

The energy storage and harvesting group announces a new postdoctoral position to work in the framework of the IntelliGent project devoted to the development and production of Co-free batteries generation 3b batteries.

We are looking for an excellent and highly motivated candidate with a PhD in Materials Science or similar with consolidated experience in Li-ion batteries. Previous experience in high-voltage cathode material characterization and testing will be highly valued during the selection process.

The selected candidate will focus on:

- Electrical and electrochemical characterization of high-voltage cathode materials.
- Green manufacturing of cathode electrodes.
- Fabrication of high-loading electrodes.
- Full-cell assembly using high capacity anodes and $\text{Li}_4\text{Ti}_5\text{O}_{12}$.
- Physico-chemical characterization of oxide materials.
- Structure characterization of oxide materials.
- Kinetic studies for the Li^+ diffusivity.
- Post-mortem analysis including XPS.

In addition to laboratory work described above, the selected candidate will summarize results in the form of deliverables and oral presentations for the consortium. 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:

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.

If interested, please contact Dr. Jordi Jacas Biendicho via email: jjacas@irec.cat and irecjobs@irec.cat by sending your CV and stating your interest. Please indicate **"Ref.35/2022"** in the subject