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**Project: 3DSTORE**

**Area leader: Prof. Joan Ramon Morante**

**Group: Energy Storage, Harvesting and Catalysis**

**Group leader: Prof. Joan Ramon Morante**

## Researcher Position on cathode fabrication for all-solid-state batteries

The **Energy Storage, Harvesting and Catalysis Group** announces a new postdoctoral position to work in the framework of the 3DSTORE project “3D printing all solid-state batteries for the internet of things applications”. The project is committed to fabricating prototype cells with a high gravimetric energy density of 400+ Wh/kg and a cycle life beyond 1000 cycles via 3D printing as storage units in real IoT nodes. The candidate will conduct the following tasks:

- Benchmark LiFePO<sub>4</sub> (LFP) based cathodes: Physico-chemical and coin cell characterization.
- Development of printable LFP inks and slurries for 3D printing.
- Optimization of solid-solid interfaces, i.e., cathode-electrolyte, to enhance performance.
- Fabrication of 3D printed all-solid-state battery cells.

We are looking for an excellent and highly motivated candidate to lead these activities in the 3DSTORE project. Therefore, the candidate should have a PhD in Materials Science or similar and experience in 3D printing. Previous experience in cathode materials, solid-state batteries and interface characterization will be valued positively.

In addition to the work described above, the candidate will summarise 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. Relevant project results will be published in high-impact journals.

### What we offer:

We offer a 2-year contract starting February 2023. 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](mailto:irecjobs@irec.cat) (with a copy to Dr Jordi Jacas, [jjacas@irec.cat](mailto:jjacas@irec.cat)) indicating "Ref.04/2023 3DSTORE ESEH"

Deadline for applications: 08/02/2022