Shaping Energy for a Sustainable Future

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Code:
Project: Advanced sensing, monitoring and self-healing mechanisms to self-repair batteries
Group: Functional Nanomaterials Group
Group leader: Dr Andreu Cabot

Predoctoral Research Position

The Functional Nanomaterials Group in the Advanced Materials for Energy Area of IREC announces a two year predoctoral research position available for a highly motivated candidate to work in the European project Healing Bat: Advanced sensing, monitoring and self-healing mechanisms to self-repair batteries.

The Healing Bat project will develop and implement self-healing concepts and materials in the key battery components, used in conventional Li-S batteries and extrapolate the designs and concepts to develop a new class of self-healing structural battery based on Li-S

The candidate will focus on the synthesis of self-healing cathode materials for Li-S batteries, their characterization, their use to produce coin and pouch Li-S cells and the test of their properties.

The candidate must have bachelor and master degrees in Chemistry, Physics, Material Science or equivalent and previous experience on the synthesis of these compounds and the fabrication and test of LIBs.

Additional information:

CV, personal references and a motivation letter have to be sent to Dr. Andreu Cabot (acabot@irec.cat).

Deadline for applications: May 5th 2023

Incorporation: June 2023

Duration of the contract: 24 months

The recruitment process will follow the guidelines of the European Charter of Researchers. Further information can be directly obtained from: Andreu Cabot (acabot@irec.cat).