

Publish date October 4th 2023

Deadline for application: October 25th, 2023

Ref. 23/067

Code:

Project: HealingBAT

Area: Advanced Materials for Energy

Area leader: Prof. Joan Ramon Morante

Group: Functional Nanomaterials Group

Group leader: Prof. ICREA Andreu Cabot

Postdoctoral Researcher Healingbat project

Description:

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

The HealingBat 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 batteries based on Li-S

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

Qualifications and experience required:

Essential:

- PhD degree in Chemistry, Physics, Material Science or equivalent
- Experience in organic chemistry

Preferred:

- Experience in Li-S batteries
- Self-healing polymers
- Polymer synthesis

Required documents:

Applicants must submit the following documents by email to acabot@irec.cat

Reference:

- Curriculum Vitae, specifying the completed degree and any relevant professional experience.
- Motivation letter.

Offer of job position:

We offer a postdoctoral position for 12 months on the frame of the HealingBat European project.

Salaries will be paid in accordance with the IREC's salary policy, depending on the candidate's qualifications and professional experience.