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**Ref. 27/2022**

**Code:**

**Project: Toward sustainable batteries based on silicon, sulfur and biomass-derived carbon (2BoSS)**

**Area: Advanced Materials for Energy**

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

**Group: Functional Nanomaterials Group**

**Group leader: Prof. ICREA Andreu Cabot**

The Functional Nanomaterials Group in the Advanced Materials for Energy Area of IREC announces a two year postdoctoral research position available for a highly motivated candidate to work in the European project 2BoSS: Toward sustainable batteries based on silicon, sulfur and biomass-derived carbon.

## ***Postdoctoral Research Position***

The 2BoSS project will will develop an innovative, durable and more circular battery technology based on a Li-S chemistry, the processing of part of the required raw materials, and the associated recycling strategies to minimize the use of critical raw materials (CRM). 2BoSS will turn commercial batteries compatible with a more circular economy, enhancing their performance, extending their service life, and assuring a more sustainable production and entire lifecycle..

The candidate will focus on the synthesis of  $\text{Li}_2\text{S}$ -biocarbon composites, their characterization and their use as cathode electrodes in Li-S batteries.

The candidate must have a PhD degree in Chemistry, Physics, Material Science or equivalent and previous experience on the synthesis of these compounds and/or on the fabrication and test of Li-S batteries.

**Additional information:**

- CV, personal references and a motivation letter have to be sent to Dr. Andreu Cabot ([acabot@irec.cat](mailto:acabot@irec.cat)) and ([irecjobs@irec.cat](mailto:irecjobs@irec.cat)). Please indicate “**Ref.27/2022**” in the subject
- Deadline for applications: April 22<sup>nd</sup> 2022, 12:00 AM (Spanish local time)
- Incorporation: May 2022
- 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](mailto:acabot@irec.cat)).