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**Area Advanced Materials for Energy**

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

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

**Head of Group:** Prof. Joan Ramon Morante

**Position:** Established Researcher (R3) – Energy Storage

**Description:**

The Energy Storage group announces a permanent position in the field of electrochemical energy storage and advanced secondary batteries. The group has consolidated experience and know-how on material synthesis and characterization as well as cell manufacturing and testing. We are looking for a Recognised Researcher able to cover our research activities in field of next-generation Li-ion batteries as well as post-Li-ion batteries including conversion and air-metal systems. Other redox flow based technologies will also welcome. The candidate will be also involved in tasks such as managing, supervising and leading research and industrial projects at both national and international level.

The candidate will participate in the following activities:

- Synthesis and characterization of energy materials using ex-situ and in-situ techniques.
- Electrochemical cell assembly, testing and validation including Li-ion, conversion, metal-air and redox flow batteries.
- Development of new materials and devices for high power applications.
- Design, fabrication and testing of solid-state batteries.
- Group coordination and funding search at European, Spanish and Catalan level.
- Monitor research activities and supervise students/researchers.
- Managing human, technical and economic resources at group level.
- Conduct outreach activities and high impact dissemination.
- Interact with industry and knowledge transfer.

The call is open to professional from any nationalities that fulfil the following eligibility criteria:

***Essential:***

- PhD in Materials Science or similar.
- At least 10 years of experience in next-generation batteries and related materials including advanced Li-ion and conversion batteries, from material synthesis to electrochemical testing.
- Know-how on cell component development, assembly and degradation.
- Experience on in-situ battery characterization using diffraction techniques.
- A strong scientific record of publications.
- Main researcher for a national or EU project related to batteries with budget > 500.000€.
- Managing industrial projects.
- Experience at international research centres or universities (post-doctoral or visiting researcher).
- Coordination of human, technical and economic resources at group level.
- Good communication skills.
- A solid record of outreach activities.

- Fluent in English, Catalan and Spanish are essential

**Desired:**

- Expert in non-critic material based Li-ion technology including silicon anodes.
- Experience in Li-S batteries and all solid state batteries.
- Experience in fluidic battery systems such as redox flow or semi-solid flow batteries.
- Lead project coordinator at EU level in the field.
- Expert on interface characterization as well as advanced material characterization.
- Coordination of industrial and technological projects.

**Proposed Jury:**

Presidència	Titular	Joan Ramon Morante
Vocal 1	Titular	Pere Lluís Cabot
Vocal 2	Titular	A.Perez-Rodriguez

More information about the selection process in:

**CALL AND REGULATORY BASES OF THE SELECTION PROCESS BY COMPETITION FOR THE RECRUITMENT OF LABOR PERSONNEL 2021/ CONVOCATÒRIA I BASES REGULADORES DEL PROCÉS DE SELECCIÓ PER A LA CONTRACTACIÓ DE PERSONAL LABORAL 2021**