Postdoctoral Scientist Position at IMDEA Energy to work on “Development of Solar Rechargeable Redox Flow Batteries”

The IMDEA Energy Institute is a Maria de Maeztu Center of Excellence with the mission of developing world-class R&D in the field of clean and renewable energy technologies. The Institute aims at contributing to the establishment of a sustainable energy system with a high degree of decarbonisation, economically competitive and securing energy supply (www.energy.imdea.org).

IMDEA Energía is opening a Postdoctoral Scientist Position for the Electrochemical Processes Unit associated to a European project (Call: H2020-FETPROACT-2020-2) lead by Dr. Rebeca Marcilla. This project, entitled “Multi-Electron Processes for Light Driven Electrodes and Electrolytes in Conversion and Storage of Solar Energy”, merges solar-powered energy storage with multi-charge transfer capability. This open Postdoctoral Position will be dedicated to the Development of Solar Rechargeable Redox Flow Batteries, a new type of devices that integrate solar energy conversion and electrochemical storage.

Your Tasks:

- The candidates will conduct independent research as well as in collaboration with other members of the group and/or the project.
- R&D on Photoelectrochemistry and Electrochemical Energy Storage.
- Development of photoelectrodes and redox electrolytes and their characterization.
- Design of photoelectrochemical cells for solar redox flow batteries.
- Establishing a suitable characterization procedure and experimental setup for the complete characterization of solar batteries under illumination conditions.
- Understand the main aspects of interfaces between the photoelectrode and the redox electrolyte under illumination.
- Dissemination and publication of research results in scientific journals.
- Supervision of PhD, Master and undergraduate students.

Required qualification, experience and skills:

- Ph.D. degree in Electrochemistry, Materials, Chemistry, Physics, Chemical Engineering or similar.
- At least 1 year of experience as postdoctoral researcher.
- R&D experience on Electrochemistry and/or Photoelectrochemistry.
- Hands-on experience on batteries or photoelectrochemical cells.
- Knowledge on redox flow batteries is desired.
- Fluent oral and written communication skills in English.

Location: Móstoles, Madrid, Spain.

Remuneration: Between 35,000-38,000 annual gross salary per year, depending upon qualification and expertise.

Duration: The position is available immediately and is a one-year appointment with annual renewals depending on performance.
Reference: 20.45 EQ7 POD

We are looking forward to your application.

For further information contact Dr. Rebeca Marcilla, E-Mail: rebeca.marcilla@imdea.org

Applicants should send their Curriculum Vitae (publications list included) by December 15th 2020 before 15:00h to the following address:

email: rebeca.marcilla@imdea.org
Subject: Reference 20.45 EQ7 POD