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Code:

Project: MATER-ONE

Area: Advanced Materials for Energy

Area leader: Prof. Joan Ramon Morante

Group: Solar Energy Materials and Systems, SEMS

Group leader: Prof. Alejandro Pérez Rodríguez

The Solar Energy Materials and Systems group, belonging to the Advanced Materials for Energy area, is announcing an early stage (predoctoral) researcher position, in the framework of the Mater-One Project, in the research line of:

DEVELOPMENT AND ADVANCED CHARACTERISATION OF THIN FILM CHALCOGENIDE SOLAR CELLS ON TRANSPARENT CONTACTS

The candidate will carry out a multidisciplinary scientific activity centred on the development and advanced characterization of chalcogenide solar cells on transparent back contacts. The candidate will work in the frame of the Mater-one project, and will be at the forefront of the photovoltaic device fabrication/characterization, with a strong interaction with the partners involved in the project for the development of high quality wide band gap chalcogenide absorbers on optimized transparent back contacts. Previous experience in the synthesis, fabrication and advanced structural (Raman spectroscopy) and optoelectronic characterization of chalcogenide solar cells will be very well evaluated.

Requisites: the candidates must have Bachelor and Master degree in Physics, Chemistry, Electronic Engineering, Materials Engineering or equivalent, before the incorporation date, and demonstrable previous research experience in thin film chalcogenide technologies, with a strong focus on the fabrication/characterization of solar devices, and knowledge on the use of different processing equipment (sputtering, evaporator, tubular furnaces) and characterization tools (XRF, XRD, SEM, Raman scattering, solar simulator, spectral response). Previous experience in Raman scattering characterization of chalcogenide absorbers will be very well evaluated. Availability for incorporation in the position on August 2021 is also required.

Candidacy: send the CV, Bachelor and Master degrees/records to Prof. Alejandro Pérez-Rodríguez (e-mail aperezr@irec.cat) indicating **Ref.45/2021** in the subject of the e-mail.

Deadline: June 27th 2021

Starting date: 1st August 2021

Contract duration: 12 months



Shaping Energy for a Sustainable Future

For additional information please contact Prof. Alejandro Pérez-Rodríguez
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