

Publish date January 10th 2020
NºRef. 1/2020

Code: MasterPV-01
Project: MasterPV
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 experimented researcher position, in the framework of the MasterPV Project, in the research line of:

DEVELOPMENT OF THIN FILM CIGS SOLAR CELLS ON TRANSPARENT CONTACTS USING ELECTRODEPOSITION

The candidate will carry out a multidisciplinary scientific activity centred on the development and characterization of CIGS absorbers and photovoltaic devices on transparent back contacts, by electrodeposition. This will include the preparation and optimization of metallic electrodeposited precursor layers on the transparent back contacts optimized for the coevaporation route. The candidate will work in the frame of the MasterPV project, and will be at the forefront of the photovoltaic device fabrication/characterization, with a strong interaction with the partners involved in the project. Previous experience on the topics (electrodeposition, transparent back contacts, thin film PV devices, characterization techniques) will be highly valued for the proposed mission, and in particular to work also in other related projects of the group.

Requisites: the candidates must have a PhD 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 (electrodeposition, sputtering, evaporator, furnaces) and characterization tools (XRF, XRD, SEM, solar simulator, spectral response). Previous experience on the development of chalcogenide solar cells (including chalcopyrite and kesterite based devices) on transparent back contacts will be highly valued.

Candidacy: send the CV, PhD, Bachelor and Master degrees/records to Dr. marcel Placidi (mplacidi@irec.cat) indicating MasterPV-01 in the subject of the e-mail.

Deadline: 31st January 2020
Starting date: February/March 2020
Contract duration: 12 months

For additional information please contact Dr. Marcel Placidi (mplacidi@irec.cat)