

Publish date May 31st 2021

Ref. 46/2021

Code:

Project: Cell2Win

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 (SEMS Group) announces a postdoctoral pre-consolidated position (R2.1.3) in the frame of the Cell2Win project, in the research line of:

Development of wide band gap chalcogenide thin film solar cells on transparent contacts

The candidate will carry out a multidisciplinary scientific activity centered in the development and optimization of wide band gap chalcogenide solar cells on transparent contacts for semi-transparent and tandem device applications, in the frame of the Cell2Win research project. This activity will include the synthesis and advanced characterization of wide band gap chalcopyrite and kesterite absorbers onto different transparent contact configurations for device optimization. The candidate 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 development of wide band gap chalcogenide solar cells and transparent back contacts in chalcogenide PV technologies will be very well evaluated.

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 chalcogenide 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 wide bandgap chalcogenide solar cells will be highly valued. Availability for incorporation in the position on August 2021 is also required.

Candidacy: send the CV, a motivation letter and PhD diploma (or certificate) to Dr. Marcel Placidi (mplacidi@irec.cat) (with copy to Prof. Alejandro Pérez-Rodríguez, e-mail aperezr@irec.cat) indicating **Ref. 46/2021** in the subject of the e-mail.

Deadline: June 27th 2021

Starting date: 1st August 2021

Expected duration of contract: 12 months



For additional information please contact Dr. Marcel Placidi (mplacidi@irec.cat) or Prof. Alejandro Pérez-Rodríguez (aperezr@irec.cat)