

Resolution date July 2nd 2020

Proporsal for the Assignement of R2 Preconsolidated Position - MastePV Project (N^oRef. 24/2020)

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Project: MasterPV: Innovative manufacturing solutions for cost-efficient semitransparent BIPV

Area: Advanced Materials for Energy

Head of the Area: Prof. Joan Ramon Morante

Group: Solar Energy Materials and Systems Group, SEMS

Group leader: Prof. Alejandro Pérez-Rodríguez

The Solar Energy Materials and Systems Group (SEMS Group) announces a postdoctoral position in the frame of the MasterPV project, in the research line of:

Advanced TCO based front/back contacts in high efficiency chalcogenide thin film solar cells

The candidate will carry out a multidisciplinary scientific activity centered in the development and optimization of advanced TCO based back/front contact configurations in chalcogenide thin film solar cells. This activity will include the synthesis by PVD processes (sputtering in combination with e-beam evaporation and/or ALD processes) of TCO based contact configurations combining the TCO layers with carrier transport nanometric layers suitable for their integration in the devices, and the advanced and structural, chemical and optoelectronic characterization of the processed samples and devices for optimization of suitable transparent contact configurations.

Requisites: The candidates need to be in position of the doctoral degree in Physic, Chemistry, Electronic Engineering, Materials Engineering or equivalent, before the incorporation date. Previous experience in deposition of transparent conductive oxides (as those related to ZnO or ITO) by PVD processes (thermal and e-beam evaporation), sputtering processes, as well as optoelectronic devices knowledge will be highly valued. Ability for incorporation in the position in 15th July 2020 is also required.

Candidacy: send the CV, a motivation letter and PhD diploma (or certificate) to Prof. Alejandro Pérez-Rodríguez (aperezr@irec.cat) indicating MasterPV in the subject of the e-mail

Deadline: June 28th 2020

Starting date: 15th July 2020

Expected duration of contract: 12 months

For additional information please contact with Prof. Alejandro Pérez-Rodríguez (aperezr@irec.cat)