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Code:

Project: TransEL

Area: Advanced Materials for Energy

Area leader: Prof. Joan Ramon Morante

Group: Solar Energy Materials and Systems, SEMS

Group leader: Prof. Alejandro Pérez Rodríguez

First Stage Researcher (R 1.6) in the frame of the Advanced PV characterization research line

The Solar Energy Materials and Systems (SEMS) group announces a position for a First Stage Researcher (R 1.6) in the frame of the Advanced PV characterization research line.

Position description: The candidate will carry out a multidisciplinary technical and scientific activity centered in the advanced characterization of the novel transparent electrode layers by various techniques including optical and electrical, as well as with evaluation of the final device performance by optoelectronic techniques. The work will be implemented in frame of the characterization of PV devices and materials research line.

Tasks to develop: The candidate will work on the application of different techniques that allow control the structural (XRD, Raman), compositional (XRF, EDX, XPS), morphologic (SEM, AFM, confocal), optical (transmittance/reflectance) and electrical (4-point probe, Hall effect, I-V) properties of the novel transparent electrodes and devices. This also include extend this techniques to methodologies for control the quality.

Requisites: The candidate must be in possession of a Master degree in Physics, Materials Engineering or equivalent before the incorporation date, have minimum of two years of laboratory experience and have demonstrable previous research experience in characterization of different properties of thin films, including electrical, structural and optical. Additionally the demonstration of research quality (publications in high impact factor of journals, conference presentation, and others) will be well evaluated.

Availability for incorporation in the position on December 2022 is also required.



Candidacy: Send the CV, a motivation letter and PhD diploma (or certificate) to Dr. Maxim Guc (mguc@irec.cat) (with copy to Prof. Alejandro Pérez-Rodríguez, e-mail aperezr@irec.cat) indicating Ref. 93/2022 in the subject of the e-mail.

Deadline: November 30th 2022

Starting date: December 14th 2022

Expected duration of contract: 24 months with a 6-month evaluation period