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**Code:**

**Project:** In4CIS

**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 researcher (pre-doctoral) position, in the framework of the In4CIS Project, in the research line of:

### **ADVANCED CHARACTERISATION OF THIN FILM CuInGaSe<sub>2</sub> (CIGS) PHOTOVOLTAIC DEVICES**

The candidate will carry out a multidisciplinary scientific activity centred on the advanced characterization of CIGS reference solar cells and mini-module devices that are being developed in the frame of the IN4CIS project for the development of innovative process monitoring methodologies in high efficiency CIGS PV technologies. The candidate will be at the forefront of the advanced microstructural, optical and optoelectronic characterisation of reference CIGS devices that are being developed under different process parameters, with a strong interaction with the partners involved in the project for the fabrication of the devices in a pre-industrial pilot line and for the development of innovative in-line process monitoring methodologies. Previous experience in advanced microscopic (TEM), optical, vibrational 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. Previous demonstrated experience on the advanced TEM, XRD, Raman scattering, optical characterization, and optoelectronic characterization (IV, EQE, CV) of thin film chalcogenide PV devices 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 Dr. Victor Izquierdo-Roca (e-mail [vizquierdo@irec.cat](mailto:vizquierdo@irec.cat)) with copy to Prof. Alejandro Pérez-Rodríguez (e-mail [aperezr@irec.cat](mailto:aperezr@irec.cat)) indicating **Ref. 41/2021** in the subject of the e-mail.

**Deadline:** June 20<sup>th</sup> 2021

**Starting date:** 1<sup>st</sup> August 2021

**Contract duration:** 14 months

For additional information please contact Dr. Victor Izquierdo-Roca and Prof. Alejandro Pérez-Rodríguez ([aperezr@irec.cat](mailto:aperezr@irec.cat))