

**Publish date: March 6th 2023**

**Ref. 16/2023**

**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

## **Postdoctoral Researcher (R2.1.1) in the frame of the "Advanced characterization of PV devices and materials" research line**

The Solar Energy Materials and Systems (SEMS) group announces a position for a Postdoctoral Researcher (R2.1.1) in the frame of the "Advanced characterization of PV devices and materials" research line.

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

**Tasks to develop:** The candidate will perform the characterization of PV-related materials and devices by different techniques to characterize their structural (XRD, Raman), compositional (XRF, EDX, XPS), morphologic (SEM, AFM, confocal), optical (transmittance/reflectance) and electrical (4-point probe, Hall effect, I-V) properties. This also includes the extension of these techniques to methodologies for process monitoring and quality control.

**Requisites:** The candidate must be in possession of a PhD 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 April 2023 is also required.

**Candidacy:** Send the CV, a motivation letter and PhD diploma (or certificate) to Dr. Maxim Guc ([mguc@irec.cat](mailto:mguc@irec.cat)) indicating Ref. 16/2023 in the subject of the e-mail.

**Deadline:** March 31st 2023

**Starting date:** April 14<sup>th</sup> 2023