

**Publish date April 5th 2022**

**Ref. 30/2022**

**Code:**

**Project: ARV**

**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) announces a project engineer position (R2 2.1.3) in the following technological line:*

### **Design and implementation of automated PV system monitoring.**

**Position description:** Engineer position to give support in the design, implementation, and calibration of a PV system monitoring in the framework of the activities performed in the ARV project by the Solar Energy Materials and Systems Group (SEMS) of IREC.

**Tasks to develop:** The candidates will carry out and coordinate independently a multidisciplinary activity centred in:

- 1) Optical (spectral transmittance, reflectance) spectroscopy characterization.
- 2) Development of optical-based methodologies compatible with in-line monitoring.
- 3) Design of a optical system (including all the optical and mechanical parts) of a PV monitoring system compatible with an in-line monitoring.
- 4) Development and programming of a user-friendly software for a fast data analysis of the data obtained with the in-line PV monitoring system
- 5) Autonomous management and coordination of experiments and the interaction with the rest of the ARV project partners.
- 6) Performing reporting activities: reports presentations, dissemination activities, etc.

**Candidate requirements:** The candidates need to be in possession of a Master degree in the field of materials, metrology, instrumentation, optics, physics or related topics and demonstrable experience in:

- 1) Research: have publications in indexed scientific journals and/or participations in international conferences on optics, metrology and/or instrumentation topics.
- 2) Previous experience in the design and implementation of optical metrology systems.
- 3) Experience in software development for the control of spectroscopy hardware using LabView.
- 4) Demonstrable active participation (work developed and coordination) as a project manager in industrial, national and international R&D projects.
- 5) Experience in participation in cooperative projects with international research or technological centres.
- 6) Experience in the management of small work groups and coordination tasks.



Shaping Energy for a Sustainable Future

**Candidacy**

Send the CV, Degree and Master Diplomas, and Degree and Master records to Dr Victor Izquierdo-Roca (vizquierdo@irec.cat) indicating “**Ref. 30/2022 ARV Position**” in the subject of the e-mail.

**Deadline:** 26<sup>th</sup> April 2022 at 17:00 hs.

**Starting date:** 10<sup>th</sup> May 2021

**Duration of contract:** minimum 12 month