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**Ref. 23/084**

**Research line:** Advanced characterization processes in thin film PV technologies  
(Processos avançats de caracterització en tecnologies fotovoltaïques de capa fina)

**Area:** Advanced Materials for Energy

**Area leader:** Prof. Joan Ramon Morante

**Group:** Solar Energy Materials and Systems, SEMS

**Group leader:** Prof. Alejandro Pérez Rodríguez

## Position for working as technician in the Electronics Laboratory

**Position description:** The Catalonia Institute for Energy Research (IREC) is a research center focused on sustainable energy solutions. The Solar Energy Materials and Systems (SEMS) research group, seeks to incorporate a person with knowledge in electronic engineering to provide support in the development of electronic elements for monitoring and sensing platforms including: i) data acquisition, ii) data processing, iii) sensor automation and control. The work will be performed in the Electronics Laboratory in the frame of the “Advanced characterization processes in thin film PV technologies” research line. The gross salary of the candidate will be 23.7k€/year (position category AL1.2).

### Tasks to develop:

- Development of electronic elements and systems for data acquisition, processing and communication
- Design, fabrication and assembly of PCBs
- Fabrication of electronic systems to give support to the research activities of the group
- Programming of electronic systems
- Support in the maintenance and reparation of the equipment of the group at electronic and electric levels
- Calibration of electric and electronic characterization systems and power supplies
- Support in the execution of activities for the different projects of the group
- Support in the management of the Electronics Laboratory

### Requisites:

- To be in possession of a degree in electronic engineering or to be enrolled in the last year of the degree

### The following characteristics will be very well evaluated:

- Programming skills and experience in C, LabVIEW, Arduino, Raspberry or equivalent
- Experience in the development and integration of light, electric and ambient sensors
- Experience in the implementation of IoT systems
- Experience with PV systems
- Previous experience in research
- To be in possession of a master in a topic related to electronic engineering

**How to apply:**

Send the CV and bachelor's and other diplomas (or certificates) to Dr. Ignacio Becerril-Romero ([ibecerril@irec.cat](mailto:ibecerril@irec.cat)) and Dr. Victor Izquierdo Roca ([vizquierdo@irec.cat](mailto:vizquierdo@irec.cat)) indicating Ref. 23/084 in the subject of the e-mail.

**Deadline:** 18th October 2023

**Starting date:** As soon as the evaluation process is complete (foreseen for mid-October 2023)

**Expected duration of contract:** Indefinite