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**Project:** INVESTIGO SEPE

**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 (SEMS) group announces an INVESTIGO SEPE fellowship:

### **Position for the development of software for photovoltaic monitoring systems**

**Position description:** IREC research center seeks to incorporate an engineer or researcher to the SEMS research group to provide support in the development of software for wireless PV monitoring sensing platforms compatible with building integrated applications including the development of algorithms for the following functionalities: i) data acquisition, ii) data processing based on Artificial Intelligence; iii) sensor automation and control. The gross salary of the candidate will be 23.8k€/year (position category R1.6).

#### **Tasks to develop:**

- Development of control and data acquisition software for the sensing platforms for real-time monitoring of PV panel operation parameters.
- Development of data analysis software and algorithms for the interpretation and modelling of the acquired data.

#### **Requisites:**

- To be between 16 and 29 years old
- To be registered in the Spanish "Oficina de Empleo" (SEPE)
- Programming skills and experience in software development
- To be in possession of a degree in engineering (Informatics, teleco, electronics, ...), degree in Physics, Materials Science, Chemistry, or equivalent before the incorporation date

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

- Incorporation before March 31<sup>st</sup>.
- Programming skills and experience in Python and C
- Programming skills in automation (LabVIEW, Arduino, Raspberry or equivalent)
- Experience in industrial environments.
- Experience in R&D
- Master degree in related topic.

#### **How to apply:**

Send the CV, a motivation letter and bachelor's and master's diploma (or certificate) to Dr. Victor Izquierdo-Roca (vizquierdo@irec.cat) (with copy to Dr. Ignacio becerril, e-mail ibecerril@irec.cat) indicating INVESTIGO-2 in the subject of the e-mail.

**Deadline:** 17<sup>th</sup> February 2023

**Starting date:** Preferable 31<sup>st</sup> March

**Expected duration of contract:** 24 months.