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**Ref. 13/2022**

**Code:**

**Project: SOILSENSE**

**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 a junior engineer position in the frame of the Soilsense project, in the line of:

### **Electronic design, automation and implementation of sensors for automatic monitoring applications.**

**Position description:** The candidate will carry out activities in the implementation of standalone automatic sensors for PV-related monitoring applications. The candidate will be incorporated in an interdisciplinary team with access to optical, mechanical, and electronic workshops with the possibility to participate in development of research and industrial systems and collaborate with cutting-edge international research centres and industries.

The work category and salary will be evaluated based on the candidate profile with an expected gross salary in the range of 25k-32k

**Tasks to develop:** The candidate will participate, with the support of research and technology team in the following activities:

- Design and implementation of electronic circuits for sensors control.
- Design of mechanical sensors structure and packaging
- Participate in the development of dedicated sensors software.
- Assembly, test and validation of sensors prototypes.
- Support in the improvement and optimization of existing sensors systems.

**Requisites:** The candidate must be in possession of Electronic / Industrial / Telecommunications / Physics Engineering degree (or equivalent) and demonstrable experience in:

- Capable of using advanced laboratory instrumentation, such as signal generators, oscilloscopes, power supplies, etc.
- Knowledge in digital and analog electronics design including microcontroller programming, and PCB design.
- Capabilities in automation including PLC and software programming (desirable LabView and Python)
- Good oral and written communication skills in English
- Proactive and autonomous person with high autonomy and capacity for teamwork.
- Incorporation in beginning of May.



Shaping Energy for a Sustainable Future

**Candidacy:** Send the CV, a motivation letter and PhD diploma (or certificate) to Dr. Victor Izquierdo-Roca (vizquierdo@irec.cat) indicating Ref. 13/2022 in the subject of the e-mail.

**Deadline:** April 1<sup>st</sup> 2022

**Starting date:** May 1<sup>st</sup> 2022

**Expected duration of contract:** 18 months