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**Ref. 25/007**

**Project:** Platform-ZERO

**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) announces a new position:

**Position for automation of characterization and process monitoring systems**

**Position description:** IREC research center seeks to incorporate an engineer or researcher to the SEMS research group to provide support in optical sensors R&D and their adaptation to industrial environments. The candidate will carry out activities focused on the design and prototyping of 3D models of sensing devices for applications in the field of process monitoring and characterization compatible with industrial environments.

**Tasks to develop:**

- 3D mechanical design of parts for opto-mechanic hardware.
- Implementation of mechanical parts by 3D printing.
- Manage prototyping services with external providers.
- Implementation of electronics and software for robotics hardware automation (control and data acquisition).

**Requisites:**

- To be in possession of a degree in Engineering (mechanical, electronic, optical, telecommunication, industrial,...), Physics, Materials Science, Chemistry, or equivalent before the incorporation date
- Experience in 3D design (SolidWorks).
- Portfolio with developed 3D and mechanical models.

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

- Experience in industrial environments.
- Experience in software development.
- Experience in automation.
- Experience in R&D.
- Master degree in related topic.

**How to apply:**

Send the CV, a motivation letter, portfolio, and bachelor's or master's diploma (or certificate) to Dr. Victor Izquierdo-Roca ([vizquierdo@irec.cat](mailto:vizquierdo@irec.cat)) (with copy to Johan Steven Ortiz, e-mail [jsortiz@irec.cat](mailto:jsortiz@irec.cat)) indicating 25/007 in the subject of the e-mail.

**Deadline:** 15<sup>th</sup> September 2024

**Starting date:** 1<sup>st</sup> October 2024

**Salary:** Salaries will be paid in accordance with the IREC's salary policy, depending on the candidate's qualification and professional experience.