

Open PhD Position

INSTRUMENTATION FOR HIGH-EFFICIENCY PHOTOVOLTAIC DEVICES

Instituto de Energía Solar - Universidad Politécnica de Madrid
ETSI Telecomunicaciones, Avda. Complutense, 30. 28040 Madrid (Spain)

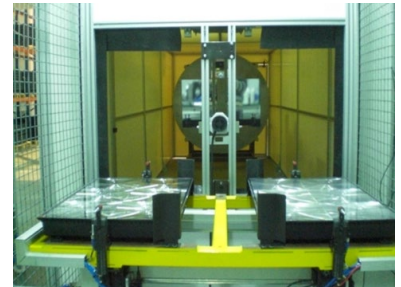
www.ies.upm.es

The Instruments and Systems Integration group of the Solar Energy Institute (https://www.ies.upm.es/Investigacion/IES_GI/ISI) is looking for a highly motivated research engineer to work in a multi-disciplinary project, funded by the European Commission within the H2020 program, in collaboration with other European research centers as well as the industry. The project aims at the industrial scale demonstration of high efficiency solar modules (>30% under direct sunlight) based on a disruptive planar optical micro-tracking technology, which concentrates sunlight on multijunction solar cells mounted on top of conventional silicon cells.



SCOPE

The work will be focused on the development of instruments and characterization techniques adapted to the specific requirements imposed by hybrid, high-efficiency micro-concentrators. The main objective is to develop quality control equipment for the next generation of photovoltaic modules with distinct capture of direct and diffuse sunlight.



REQUIREMENTS

Candidates must hold a Master Degree in **electronics** or a related area.

- Excellent qualifications
- Knowledge in optoelectronics, microcontrollers, power converters, sensors and data acquisition systems.
- Experience with NI Labview, Matlab, Python and PCB design is a plus
- A high level of written and oral communication skills in English.
- Very good communication and team work skills. High sense of responsibility, very good organizational and documentation skills.



CONDITIONS AND APPLICATION

The contract is offered for a period of four years (based on annual renewal), with full-time dedication. Remuneration similar to competitive Spanish national grants (FPI, FPU...).

Candidates are selected exclusively on merit and potential on the basis of submitted application material. No restrictions of persons with disabilities, citizenship or gender apply.

Interested candidates should send his/her **CV** and academic **grades** by email to Dr. César Domínguez (cesardd@ies.upm.es) and Dr. Ignacio Antón (i.anton@ies.upm.es).