

Open position

ELECTRONICS ENGINEER

INSTRUMENTATION FOR HIGH-EFFICIENCY PHOTOVOLTAIC DEVICES

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

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 design and development of test equipment for the characterization of high efficiency photovoltaic devices. The main objective is to develop a quality control equipment for the next generation of photovoltaic modules with distinct capture of direct and diffuse sunlight.

REQUIREMENTS

Candidates must hold an internationally-recognized high-level **engineering degree in electronics** or a related area.

- Microcontroller / embedded systems programming
- PCB design flow (Eagle, Orcad...)
- Knowledge of sensors, data acquisition systems and power converters
- NI Labview is a plus
- Matlab/Python scripting

CONDITIONS AND APPLICATION

The contract is offered for a period of one year with the possibility for extension up to four years, with full-time dedication. Remuneration according to knowledge and experience provided. 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.

Opportunity to undertake a doctoral research thesis (Master degree is compulsory), depending on the candidate's suitability and motivation.

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).

