

Publish date February 11th 2022

Ref. 10/2022

Code:

Project: FOTOCER

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 Group (SEMS) announces a pre-doctoral position (R1.4) in the frame of the FOTOCER, in the research line:

DEVELOPMENT AND OPTIMISATION OF UV SELECTIVE SOLAR CELLS WITH VERY HIGH TRANSPARENCY AND OPTICAL QUALITY

The candidate will carry out a multidisciplinary scientific activity centred on the development and optimisation of UV selective solar cells for transparent photovoltaic applications, developing and optimising device architectures based in the use of wide band gap Zn(O,S) absorbers, a-Si/ZnO heterostructures and/or Sb₂S₃ based devices, in the frame of the FOTOCER project for the development of high optical quality PV functional based ceramic elements. Previous experience on the development of wide band gap oxide-based transparent solar cells and in the use of advanced semiconductor materials and devices characterisation techniques and thin film processes will be very well evaluated.

Requisites: the candidates must have Bachelor and Master degree in Physics, Electronic Engineering, Materials Science or equivalent, with demonstrable working experience in a R&D laboratory for more than 2 years before the incorporation date. Previous experience on UV selective based solar cells for transparent PV applications and advanced thin film process techniques and semiconductor advanced characterisation techniques will be very well evaluated, together with experience in participation in international collaborative R&D projects.

Candidacy: send the CV, and Degree and Master records to Prof. Alejandro Pérez-Rodríguez (aperezr@irec.cat) indicating Ref. 10/2022 in the subject of the e-mail.

Deadline: March 3rd 2022

Duration of contract: 12 months, with possible extension.

For additional information, please contact Prof. Alejandro Pérez-Rodríguez (aperezr@irec.cat).