

PhD Position or Research Assistant Contract Available to investigate on Semiconducting Organic Materials for Organic Solar Cells

Job Description

A PhD Position (preferred option) or, alternatively, a 2-year Research Assistant Contract is available at CIT-UDC (Ferrol, Spain) to conduct research on **materials science aspects of organic semiconductors, with special focus on materials for organic solar cells**. The project is aimed at gaining full understanding of the solid-state microstructure polymeric and small molecule semiconducting materials, with the final goal to establish the interplay between structure/morphology of the materials and its optoelectronic properties.

First months of the contract will be conducted at POLYMAT-EHU/UPV (San Sebastián, Spain), i.e. at the former laboratory of the PI. There, the employee will gain knowledge on the experimental methods to be used.

Further information about the host research group can be found in: www.jaimemartinlab.com

Main tasks of the position will be:

- Study the solid-state microstructure of thin films of semiconducting polymers and semiconducting small molecules by **ultrafast scanning calorimetry, synchrotron radiation, spectroscopic and microscopic methods**.
- Understand how the solid-state microstructure impacts optoelectronic properties, e.g., charge-carrier transport, charge generation, exciton recombination, etc. of organic solar cells and other optoelectronic devices

Eligibility

Applicants must have a BSc and MSc in Physics, Chemistry or Materials Science/Engineering and general knowledge about materials science and/or organic electronics. Knowledge on MATLAB/Python programming and on polymer physics is highly desirable.

Good command of written and spoken English is a must. The selected candidate is expected to conduct research, travel, write papers, and deliver a PhD thesis.

Applications

Applications, as one single PDF, should be submitted electronically to Dr. Jaime Martin (jaime.martin.perez@udc.es) before of **August 10th** and should include:

- (i) curriculum vitae.
- (ii) a short description of previous research (1-2 Pages).
- (iii) the names and contact addresses (e-mail) of an academic referee.

For further information or queries, please contact jaime.martin.perez@udc.es

Please note that because of the large number of applications expected, we will not be able to give individual feedback to unsuccessful applications.