

Company Description

A PhD position is available at POLYMAT and DIPC to conduct research in microstructure and dynamics of glassy phases in semiconducting polymers. The project is aimed at establishing relevant interrelationships between the processing, the structure (of semiconducting glassy phases) and the (optoelectronic) properties of the new generation of semiconducting polymers for OFET and OPV devices. This is a joint doctoral program between Dr. Jaime Martin (at POLYMAT) and Dr. Daniele Cangialosi (DIPC)

Information

 **Deadline:** 2019-11-30
 **Category:** Academia
 **Province:** Gipuzkoa

 **Country:** Basque Country
 **City:** San Sebastian

Company

Polymat

POLYMAT
 Basque Center for
 Macromolecular Design and Engineering

Main functions, requisites & benefits

Main functions

Main task of the position are: Study the structural and dynamical properties of the glassy phases of semiconducting polymer thin films combining ultrafast calorimetry, synchrotron radiation, spectroscopic and microscopic methods. Understand how the structure and dynamics of semiconducting glasses impact optoelectronic properties, e.g. charge-carrier transport, charge generation, exciton recombination, etc.

Requisites

Eligibility Applicants must have a BSc and MSc in Physics, Chemistry or Materials Science/Engineering and general knowledge about polymer physics. 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.

