

PhD Position Available in Polymer Semiconductors

Job 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 Martín (at POLYMAT) and Dr. Daniele Cangialosi (DIPC)

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.

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.

Applications

Applications, as **one single PDF**, should be submitted electronically to Dr. Jaime Martín to jaime.martin@polymat.eu before of November 30th and should include:

- (i) a cover letter highlighting their interest in the position.
- (ii) curriculum vitae.
- (iii) a short description of previous research (1-2 Pages).
- (iv) the names and contact addresses (e-mail) of two academic referees.

For further information or queries, please contact Dr. Jaime Martín at jaime.martin@polymat.eu

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