

# Postdoctoral position on Physical Chemistry: Discotic Liquid Crystals for Plastic Solar Cells

The Centre de Recherche Paul Pascal of the CNRS – University of Bordeaux (see: <http://www.crpp-bordeaux.cnrs.fr/>) is pleased to open a postdoctoral position in the framework of the GIS network “Advanced Materials in Aquitaine”.

**Profile:** Highly motivated young scientist with a Ph.D. in the field of **physical chemistry of liquid crystals and/or physical engineering of organic solar cells**. The candidate should not be older than 35 and must be fluent in English with clear paper writing skills.

**Expectations:** The candidate is expected to develop an innovative experimental research project on the structural characterization and thin film processing of discotic liquid crystalline materials within the framework of the GIS project. A close collaboration with the IMS group in Bordeaux regarding the optoelectronic properties and the fabrication and characterization of photovoltaic devices will be developed.

**Scientific context:** The project will focus on the use of a new generation of discotic liquid crystals which can self-assemble into large domains to form an organic heterojunction. In order to be able to benefit from the good uniaxial charge and exciton mobilities of the discotic material, it is necessary to control the structure and the organization of the mesophase in oriented thin films. The aim is to obtain a highly organized composite active layer based on two electronically complementary self-assembled materials.

**Salary:** Applicants can expect a salary of ~ 2000€/month after tax.

**Duration:** The position is for duration of one year and half (18 months).

**Application:** The application file should be composed of a curriculum vitae, a list of publications, and two letters of recommendation.

**Starting date of the postdoctoral fellow:** September, 1<sup>st</sup> 2009

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