

PhD position in Organic Electronics



We offer a PhD position working within the framework of a MINECO Research project (FPI fellowship)

The candidate will be able to join to a pioneer, dynamic and active group from the Department of NanoScience and Organic Materials (**NANOMOL**, www.icmab.es/nanomol) that belongs to the Materials Science Institute of Barcelona (ICMAB-CSIC) located at the UAB (Universitat Autònoma de Barcelona) research park.

The Nanomol Department has a wide expertise and recognized excellence in the synthesis, processing and study of molecular and polymeric materials with chemical, electronic, magnetic and biomedical properties.

The current research project will be embedded in the scientific discipline of **Molecular/Organic Electronics** that aims to employ organic functional molecules as electronic components. In particular, the main objective in this project will be the preparation of switchable hybrid materials for their application as memories or sensors.

The main tasks that the candidate will have to carry out within the project include:

- a) Synthesis of functional molecules.
- b) Preparation of hybrid materials, such as self-assembled monolayers of the functional molecules on conducting substrates.
- c) Study of these functional materials using different surface characterization techniques.
- d) Study of the switching or sensing capabilities of the materials by electrochemistry means.

The fellow must hold a Bachelor degree preferably in Chemistry and hold a recognized Master degree (or equivalent) in Chemistry, Materials Science or Nanotechnology. An interdisciplinary outlook is desired and will be encouraged. Experience in electrochemical techniques and organic synthesis will be highly valued.

The successful candidate will work in an international environment and might travel to other European countries to develop the project. Also, the candidate will receive a strong multidisciplinary training and will work in a dynamic group.

Contact: Interested candidates should send a detailed CV including his/her academic record and a list of references with contact details by e-mail to Dr. Marta Mas-Torrent (mmas@icmab.es); address: ICMAB - CSIC, Campus Universitat Autònoma de Barcelona, 08193 Bellaterra, Spain).

Closing date for application: 5th October 2017