Synthetic Chemistry Post Doctoral Associate

We are looking for a highly motivated, experienced, and talented Post Doctoral Scholar to complement our team in the **Development of Novel Organic and Coordination Compounds with Applications in Dye-Sensitized Solar Cells**. This project is related to the Research Program "Advanced Materials for Highly Efficient Dye-Sensitized Solar Cells – AdMatDSC" financed by the Greek Ministry of Education and the European Commission under the action "ΑΡΙΣΤΕΙΑ".

AdMatDSC draws on nanotechnology-driven molecular science, involving advanced functional materials incorporated in low-cost photovoltaic devices, in order to provide efficient conversion of solar energy to electricity. The strong ties and close collaboration of the AdMatDSC research team with leading research and industrial partners in the field will permit technology transfer and direct incorporation of the most innovative results of the project in the next generation of dye-sensitized solar cells devices.

Description of the project

This eighteen-month project will focus on the design, synthesis, and characterization of a series of novel organic and coordination photosensitizers and redox couples, as well as new types of carbon-based materials with tunable physicochemical properties. These materials will be ideally suited for incorporation in high-performance dye-sensitized solar cells.

The successful candidate will also have to supervise, guide, and train a PhD student that will be hired in order to work in the same project.

The successful candidate will be employed from October 2012 for eighteen months.

Possible starting date: October 1st 2012

Qualifications

Candidates must hold a Bachelors/Diploma degree in Chemistry, a Masters degree in Organic or Inorganic Chemistry, and a PhD degree in Chemistry. Research experience in organic synthesis, organic photochemistry, physical organic chemistry, fullerene and/or graphene nanoribbons chemistry, polymers synthesis, organometallic and coordination chemistry, as well as in the field of Dye-Sensitized Solar Cells is essential. The candidates also have to have experience in successfully training PhD and Masters students in the above fields, excellent communication skills (extensive experience in papers and research proposals writing as well as presentations in international conferences), and excellent command of the English language (fluently speaking and writing).

For application (deadline: 31/07/2012) send:

1) Your CV
2) Copies of your university degree(s)
3) A cover letter (up to 1 page) outlining your qualification for the project
4) A list of publications
5) Other documents to demonstrate specific experiences

6) The names and contact details of at least two referees

Applications have to be addressed to Dr. Polycarpos Falaras

Dr. Polycarpos Falaras
National Centre of Scientific Research Demokritos
Institute of Advanced Materials, Physicochemical Processes, Nanotechnology and Microsystems (IAMPPNM), Department of Physical Chemistry
Terma Patriarchou Grigoriou & Neapoleos
15310, Agia Paraskevi, Athens, Attika, Greece
e-mail: papi@chem.demokritos.gr
Tel : + 030 210 6503644