

## POST-DOC RESEARCH GRANT

Job reference: CQM11-03PD-PTDC/CTM/098451/2008  
(M/F)

The Madeira Chemistry Research Centre (CQM-Centro de Química da Madeira) at the University of Madeira, Funchal, Portugal, offers a post-doc grant for scientific research in the framework of the Project **OPUSGRAFT- Oligo(phenylene ethynylene)s Derivatives Covalently Grafted Onto Porous Silicon: Novel Hybrid Molecular/semiconductor Systems for Application as Waveguides (PTDC/CTM/098451/2008)**, supported by the Portuguese Foundation for Science and Technology (FCT)/Portuguese Ministry of Science, Technology and Higher Education (MCTES, PIDDAC) in the following conditions:

**1. Scientific Area:** Science and Materials Technology

**2. Admission requirements:** The candidates must have a **PhD degree** in Chemistry, Materials Science or in related fields. Preference will be given to candidates with expertise in the field of synthesis and characterization of organic and organometallic compounds and in the preparation and characterization of self-assembled monolayers (SAMs) by DRIFT, CV, XPS, AFM and photoluminescence. IMMEDIATE AVAILABILITY is required.

**3. Work plan:** The researcher will participate in the following tasks in the scope of the Project: (1) Preparation and characterization of hybrid molecular/semiconductor systems; (2) Optical characterization of the hybrid molecular/semiconductor systems.

**4. Applicable laws and regulations:** Portuguese Law n. 40/2004, of 18 of August (Research Grant Holder Statute); FCT Regulations for Advanced Training and Qualification of Human Resources 2010.

**5. Work place:** The work will be developed at the Madeira Chemistry Research Centre under the supervision of Professor João Rodrigues.

**6. Grant term and status:** The grant will last for six months in full-time, and is expected to begin before **15 April 2011**. The grant contract may be renewed up to a maximum of 24 months.

**7. Value of monthly maintenance allowance:** The scholarship amounts to **€ 1495** by month (free of taxes), according to the monthly maintenance stipend awarded directly by the FCT in Portugal (<http://alfa.fct.mctes.pt/apoios/bolsas/valores.phtml.en>), plus fringe benefits (accidents and social insurance).

**8. Selection method and evaluation criteria:** The selection process will be based on the curriculum evaluation by application of the following criteria: a) Proven experience in the area of synthesis and characterization of organic and organometallic compounds and in the preparation and characterization of self-assembled monolayers (SAMs)(45%); b) Remaining curriculum vitae and motivation letter evaluation (45%); c) Recommendation letters and other documents if applicable (10%).

**9. Jury composition:** **João Rodrigues** (Head of the Jury), **José Mesquita**, **Helena Tomás**, **José Câmara** (1st substitute member), **Pedro Pires** (2nd substitute member).

**10. Results disclosure:** The final evaluation results (ordered list based on the obtained classification) will be disclosed in the Madeira Chemistry Research Centre web site (<http://cqm.uma.pt>), and the candidates informed by e-mail about the final decision.

**11. Deadline and submission of applications:** The call is open from 10 to **25 of March 2011 at 17h (Lisbon time)**. Applications should be submitted by e-mail ([cqm@uma.pt](mailto:cqm@uma.pt)) only (**e-mail subject:** Job/Fellowship reference, **CQM11-03PD-PTDC/CTM/098451/2008**), with the following information: a) Motivation letter; b) Detailed *Curriculum Vitae*; c) Official and complete academic certificates in Portuguese or translated to English (certificated translation); d) Two recommendation letters or name and e-mail contacts of two referees.

Further information at <http://cqm.uma.pt> or [www.uma.pt/irmmrg](http://www.uma.pt/irmmrg)

CQM follows the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers (Commission Recommendation, Brussels, 11.3.2005, 2005/251/EC), is committed to the principle of equity in employment and welcomes applications from all qualified individuals.