

**Announcement: research fellowship in Low-Temperature Plasma Physics
for holders of BSc degrees**

(BI/FIS/2016)

Applications are invited for a research fellowship in Low-Temperature Plasma Physics at University of Madeira for holders of BSc degrees. The work will be conducted in the framework of the project “Modes of Current Transfer to Cathodes”, sponsored by Universidade da Madeira, in the Department of Physics of the Faculty of Exact Sciences and Engineering of University of Madeira, <http://fisica.uma.pt>. The conditions of the call are as follows.

Scientific Area: Numerical simulation of gas discharges.

Admission requirements: Bachelor degree in Physics, electrical engineering or similar, national or foreign; experience of scientific programming in Fortran. Previous experience of modelling of gas discharges attested by publications and programming experience in Comsol Multiphysics platform are preferential factors.

Work plan: Development of programs for advanced numerical simulation of plasma-cathode interaction in arc discharges in ambient gases and vacuum.

Applicable legislation and regulations: Law n.º 40/2004, of 18th August (Estatuto do Bolseiro de Investigação Científica); Regulations for Research Grants of the Foundation for Science and Technology I.P. - 2015; Regulations for Research Grants of the University of Madeira.

Funding: The fellowship will be funded by Universidade da Madeira through the budget of the project Modes of Current Transfer to Cathodes.

Place of work: Work will be conducted at Campus da Penteada of Universidade da Madeira, Funchal, in the facilities of the Department of Physics of the Faculty of Exact Sciences and Engineering.

Grant duration: The initial contract will have duration of twelve months with the possibility of renewal.

Value of monthly maintenance allowance: The monthly maintenance stipend is 745€, according to the regulations of the Foundation for Science and Technology I.P. – 2015 (<http://www.fct.pt/apoios/bolsas/valores.phtml.en>).

Selection method: The assessment of the curricula vitae of the candidates.

Jury composition: Professor Mário Dionísio Cunha (president), Professor Nelson Alexandre Pereira da Rocha Almeida (effective member), Professor Pedro Jorge Gomes Camacho de Almeida (effective member), Professor José Gabriel Lira Gomes (substitute member).



Notification of results: Final results shall be published on the internet page of the Department of Physics of University of Madeira (<http://fisica.uma.pt/>) in the form of an ordered list. The selected candidate shall be notified by email.

Application: Application will be open from 1st to 15th of June 2016, 5:30 pm (Greenwich Mean Time).

Application must be formalized by means of an application letter accompanied by the following documents:

- * Indication of availability from August 1st, 2016 on a full-time basis;
- * Copy of identification document;
- * The degree of Bachelor's certificate;
- * Detailed Curriculum Vitae.

The application letter and supporting documents must be sent by email to Professor Mário Dionísio Cunha, mario@uma.pt, with the subject "Research fellowship in numerical simulation of gas discharges".