

Research fellowship in Low-Temperature Plasma Physics for holders of BSc degrees

(PlasMa/BI/2019-2)

1 vacancy

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 “PlasMa: theory and advanced simulation of plasmas relevant to energy applications”. sponsored by Fundo Europeu de Desenvolvimento Regional – FEDER, through the Programa Operacional Madeira 14-20, 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;

I. Scientific Area: Numerical simulation of gas discharges.

II. Admission requirements: Bachelor degree in Physics, electrical engineering or similar, national or foreign; experience of modelling of gas discharges in COMSOL Multiphysics, attested by publications.

III. Work plan: Research, by means of advanced numerical simulation of streamer discharges in a large range of conditions including the effect of dielectrics and time-varying fields.

IV. 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.; Regulations for Research Grants of the University of Madeira.

V. Funding: The fellowship will be funded by Universidade da Madeira through the budget of the project “PlasMa: theory and advanced simulation of plasmas relevant to energy applications”.

VI. 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.

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

VIII. Value of monthly maintenance allowance: The monthly maintenance stipend is 745€, according to the Regulations for Research Grants of the University of Madeira.

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

X. Jury composition: Professor Mikhail Benilov (president), Professor Mário Dionísio Cunha (effective member), Professor Professor Nelson Alexandre Pereira da Rocha Almeida (effective member), Professor José Luís da Silva (substitute member).

XI. Notification of results: The final evaluation results (ordered list based on the obtained classification) will be disclosed at the websites of the Human Resources Unit - University of Madeira (<http://urh.uma.pt>). The selected candidate will be informed by e-mail.

XII. Application deadline and requirements:

- a) Applications shall be submitted within 10 working days after the announcement of the public notice;
- b) Applications must be supported by an application letter, and accompanied by the following documents: *Detailed Curriculum Vitae; The degree of Bachelor's certificate and a declaration that certifies immediate availability to start the reseach fellowship, full time, after the end of the competition.*
- c) The applications must be submitted by e-mail to nucleo.bolseiro@mail.uma.pt indicating the reference “(PlasMa/BI/2019-2)” in the email subject.