

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

**(PlasMa/BI/2019-1)**

**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 scientific programming in Fortran.

**III. Preferred requirements:** Previous experience of modelling of gas discharges attested by publications and programming experience in Comsol Multiphysics platform are preferential factors.

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

**V. 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.

**VI. 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”.

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

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

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

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

**XI. 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 Luís da Silva (substitute member).

**XII. 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.

**XIII. 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 research fellowship, full time, after the end of the competition.*
- c) The applications must be submitted by e-mail to [nucleo.bolseiro@mail.uma.pt](mailto:nucleo.bolseiro@mail.uma.pt) indicating the reference "(PlasMa/BI/2019-1)" in the email subject.

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