

PUBLIC NOTICE FOR THE AWARD OF RESEARCH FELLOWSHIP

(1 vacancy)

Madeira Island, Portugal

Job Reference: CQM-17-01-BPD-MAC/4.6d/040

Within the ECOFIBRAS project (Eco-sustainable valorisation of invasive vegetal species in Macaronesia to obtain fibres with industrial use, MAC/4.6d/040), supported by the Transnational Cooperation Programme Madeira-Azores-Canarias (MAC 2014-2020) towards Regional Development Fund (ERDF), the **Centro de Química da Madeira (CQM)**, University of Madeira, Funchal, Madeira Island, Portugal, is offering a post-doc fellowship for scientific research and development (M/F), in the following conditions:

I. Scientific area: Chemistry/Materials science

II. Admission requirements: The candidates must have a Ph. D. in Chemistry, Materials Science or in fields related to the project and:

- Experience in the study and in the chemical, structural, morphological and functional characterization of natural fibers;
- Experience in studies of thermal stability and mechanical properties of organic polymers and natural fibers;
- Proven expertise in the use of SEM, AFM, TGA and FTIR techniques.

Preference is given to anyone who, in addition to the previous requirements, has a doctorate in the area and/or research work (published papers with impact factor and/or patents) in the field of the project and/or in the preparation of nanocomposites based on natural fibers and inorganic nanoparticles for immobilization and delivery of drugs.

III. Work Plan: This work is part of an international project (Madeira, Azores, and Canaries) that aims to study and valorise invasive species in the Macaronesia Region, namely *Agave americana*, *Arundo donax*, *Pennisetum setaceum* and *Ricinus communis*. The fellow will be responsible for the study of the chemical, structural, morphological, thermal and mechanical properties of fibers and for the preparation of nanocomposites based on these natural fibers.

- Task 1 - Bibliographic research;
- Task 2 - Chemical, structural, morphological and functional characterization of natural fibers;
- Task 3 - Preparation of nanocomposites based on fibers and inorganic nanoparticles;
- Task 4 - Determination of the thermal and mechanical properties of fibers and nanocomposites;
- Task 5 - Preparation of technical reports and papers.

Note: Some of the tasks may run in parallel.

IV. Laws and applicable regulation: Law no. 40/2004, of August 18 (Scientific Research Grant Holder Statute); Grant Regulation of the University of Madeira.

V. Workplace: The work shall be carried out at the **Centro de Química da Madeira** (National Research Centre) of the University of Madeira, under the guidance of Prof. João Rodrigues.

VI. Duration of the grant: The fellowship will last for 6 months, possibly renewable for a maximum of 19 months.

VII. The amount of the monthly stipend: The monthly stipend of the grant is €1495, according to the stipend table awarded directly by the Universidade da Madeira.

VIII. Selection Methods: By evaluation of the *Curriculum Vitae* of the candidates.

IX. Composition of the selection jury: Prof. João Rodrigues (President of the Jury), Prof. Helena Tomás (effective member), Prof. Pedro Pires (effective member), and Doctor Carla Alves (alternate member).

X. Pronouncement and notification of the results: The admission lists as well as the results of each selection method and final ordering lists will be disclosed on the page of the Human Resources Unit - University of Madeira in <http://urh.uma.pt/>, and on Centro de Química da Madeira webpage in <http://cqm.uma.pt>. All candidates shall be notified by *e-mail*.

XI. Application deadline and requirements:

- Applications shall be submitted within 25 days of the announcement of the public notice;
- Applications must be supported by an application letter, and accompanied by the following documents: *one-two page motivation letter detailing the research experience relevant to project; Full Curriculum Vitae; Qualification certificate translated to English and certificated; contact of two referees (name, address and email); other supporting documents considered relevant for the evaluation of the application.*
- The applications must be submitted exclusively by e-mail to nucleo.bolseiro@mail.uma.pt indicating the reference “CQM-17-01-BPD-MAC/4.6d/040” in the email subject.

Applications must be supported by an application letter, and accompanied by the following documents: *one-two page motivation letter detailing the research experience relevant to project; Full Curriculum Vitae; Qualification certificate translated to English and certificated; contact of two referees (name, address and email); other supporting documents considered relevant for the evaluation of the application.*

The CQM is a National Research Unit supported and evaluated by FCT – Fundação para a Ciência e a Tecnologia. It is a recognized “refugee welcoming organization” by the European Commission, follows the European Charter for Researchers, 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.



eco
FIBRAS