

CALL FOR RESEARCH GRANT

Process 450328

It is open a call for one research fellowship, in the framework of the project "MATIS - Materiais e Tecnologias Industriais Sustentáveis" (reference: CENTRO-01-0145-FEDER-000014), co-funded by the European Regional Development Fund (FEDER), through the "Programa Operacional Regional do Centro" (CENTRO2020) program, with the following characteristics:

N. of fellowships: 1

Activity: The present grant aims to develop research work for advanced training and support of scientific activities associated with the MATIS project, particularly on the development of thin films with nanocomposite structure consisting of noble metal nanoparticles, or metal compounds, embedded in insulating matrices. The grant-holder will be responsible for the optimization of the production and characterization of the films with the main objective of controlling the distribution and sizes of the nanoparticles inside the matrices with a view to their application in sensors based on plasmonic coatings.

Financing: European Regional Development Fund (FEDER), through the "Programa Operacional Regional do Centro" (CENTRO2020).

Admission requirements: Candidates with MSc degree in Mechanical or Materials or Biomedical Engineering or other fields (e.g. Physics or Chemistry) with knowledge in protection and degradation of materials' surfaces.

Location: Universidade de Coimbra - Departamento de Engenharia Mecânica.

Duration: 12 months.

Renewal: The grant might be renewed until the end of the project.

Scientific Orientation: Professor Bruno Miguel Quelhas de Sacadura Cabral Trindade and Professor Pedro Manuel Gens de Azevedo de Matos Faia.

Financial conditions: The amount of the grant is € 980,00 corresponding to the monthly compensation stipulated in the FCT table (<https://www.fct.pt/apoios/bolsas/valores.phtml.en>), plus social security (Seguro Social Voluntário, first level contributions) and personal accidents insurance.

The payment will be made by bank transfer. This amount will not be increased during the entire period of the grant duration.

Regime: The attribution of the fellowship does not generate or entitle a relation of a legal-labour nature, and the fellowship is undertaken in an exclusive dedication regime. The fellow is granted with the Fellow Statute of the University of Coimbra, in its current wording, according to the Statute of the Scientific Research Fellow, in its current wording, and according to the Regulation of Research Grants of the Fundação para a Ciência e a Tecnologia, I.P., also in its current wording.

Selection methods: Curricular evaluation (70%) and interview (30%).

Selection and attribution criteria: The curricular evaluation will focus on the following criteria:

- A. Scientific merit (15%);
- B. Academic merit (25%);
- C. Matching between the candidate's profile and the grant objectives (20%);
- D. Experience in the field of the research (10%).

The interview will consider the following criteria: Motivation (15%) and communication skills in English (15%).

Formalization of application: The applications must include a motivation letter, a detailed CV and certificate of the MSc degree.

Applications submission: Applications should be sent by email to the e-mail: albano.cavaleiro@dem.uc.pt with copy to mmadeira@dem.uc.pt (E-mail subject: Bolsa MATIS - process 450328).

Jury responsible for selection: Professors Albano Augusto Cavaleiro Rodrigues de Carvalho, Bruno Miguel Quelhas de Sacadura Cabral Trindade and Pedro Manuel Gens de Azevedo de Matos Faia.

Submission of applications: Between 30/08/2017 and 19/09/2017.

Publication date: 29/08/2017.

Deadline for application: 19/09/2017.

Additional information: The evaluation results will be announced within 90 days after the end of the applications submission deadline, by notifying the applicants via email. After the announcement of the results, candidates are considered automatically notified to, if they wish to do so, comment on the



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results on a preliminary hearing period within 10 days after that date. After this, the selected candidates will have to declare in writing their acceptance. Unless a justification worthy of consideration is presented, if the declaration is not submitted within the referred period, it is considered that the candidate waives the grant. In case of resignation or withdrawal of the selected candidate, the next candidate with the highest evaluation score will be notified immediately.