



UNIVERSIDADE DE COIMBRA

CALL FOR RESEARCH GRANT

A call for one Post-Doctoral research fellowship is open, in the framework of the impactus project "Innovative Products and Technologies from Eucalyptus Project" (reference: POCI-01-0247-FEDER-021874), co-financed by the European Regional Development Fund (FEDER), through the Competitiveness and Internationalization Operational Program, of Portugal 2020, in the following conditions:

Scientific area: Chemical Engineering or related fields.

Admission requirements: PhD in Chemical Engineering or related areas, with preference of candidates with experience in modelling, simulation and chemical process optimization .

Work plan: The purpose of this scholarship is the development of research work within the framework of advanced postdoctoral training. The main activities are related to the techno-economic evaluation of process alternatives for the production of bioethanol, and the characterization of their performance. The work plan includes the scale-up study of the processing units involved, incorporating results obtained in previous projects. A comparison with process solutions from external technological suppliers is also considered. The work plan includes also: i) a process integration study of the bioethanol manufacture in a pulp and paper complex, together with other alternatives for biomass valorization; ii) unit sizing and the complete base engineering of the bioethanol plant; iii) the characterization of the corresponding investment project.

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 UC, in its current wording, according to the Statute of the Scientific Research Fellow, and according to the Regulation of Research Grants of the Fundação para a Ciência e a Tecnologia, I.P., both in their current wording.

Location: Department of Chemical Engineering, Faculty of Sciences and Technology, at the University of Coimbra.

Duration: 12 months.

Renewal: Eventually renewable.

Scientific orientation: Prof. Doutor Nuno Manuel Clemente de Oliveira and Prof. Doutor Belmiro Pereira Mota Duarte.

Financial conditions: The amount of the grant is € 1.495,00 corresponding to the monthly compensation stipulated in the FCT table (<https://www.fct.pt/apoios/bolsas/valores.phtml.en>), plus

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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.

Selection methods: Curricular evaluation (70%) and interview (30%) that to be carried out to the 3 best placed in the Curricular Evaluation.

Selection criteria: The Curricular Evaluation will be carried out with the following subcriteria:

(A) Experience in the research areas of the project (50%)

(B) Curriculum Analysis (50%):

- i) Number of scientific publications, up to a maximum of 15 publications (30%);
- ii) Relevance of the publications and effective contribution of the candidate (35%);
- iii) Knowledge of techniques and methodologies required for the project (35%).

The following subcriteria will be used in the interview to classify candidates:

(C) Communication and verbal expression (50%);

(D) Analysis and critical sense (25%);

(E) Motivation and interest (25%).

Jury responsible for selection: Prof. Doutor Nuno Manuel Clemente de Oliveira, Prof. Doutor Paulo Jorge Tavares Ferreira and Doutora Paula Cristina de Oliveira Rodrigues Pinto.

Formalization of application: Applications must be formalized by sending the following documents by email: Letter of interest; Curriculum vitae; Names and electronic addresses of two contacts to obtain references; Copy of the doctoral letter, as well as other relevant documents considered.

Candidates with foreign academic diplomas are obliged to present records of the equivalence/recognition of such diplomas and the conversion of the respective final notes to the Portuguese classification scale (whenever a final classification is attributed with the foreign diploma), issued by the Directorate-General for Higher Education or by a Portuguese public higher education establishment (regulated by Decree-Law no. 341/2007, of 12 October) or, in alternative, present the documentation of equivalence/recognition of such foreign qualifications to the corresponding Portuguese qualifications, issued by a Portuguese public higher education establishment (regulated by Decree-Law no. 283/83, of 21 June).

Applications submission: Applications must be sent by e-mail: nuno@eq.uc.pt and paulo@eq.uc.pt, indicating in the subject the reference BPD-03-21874-UC.

Submission of applications: Between 14/05/2018 and 31/05/2018.

Publication date: 11/05/2018.

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Submission deadline date: 31/05/2018.

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 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.

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