

1 Research Grant Announcement (M/F)

Call open for applications for a research grant within the framework of project DRI/India/0504/2020 - WASTENERGY – Distillery WASTes Valorisation into renewable ENERGY - with financial support from FCT/MCTES through national funds (PIDDAC), under the following conditions:

Scientific Area: Chemical Engineering, or related areas

Admission requirements: Candidates who cumulatively meet the following two requirements may apply for this grant:

Requirement 1:

- Be a student enrolled in a doctoral program in the area of Chemical Engineering, or related areas, a requirement to be duly proven at the time of signing the contract,

or

- Be holder of an academic degree enrolled in a non-academic degree course integrated in the educational project of a higher education institution, developed in association or cooperation with one or more R&D units, a requirement to be duly proven at the time of signing the contract.

Note: In the case of masters who are enrolled in non-academic degree courses, the scholarship can only be awarded to those who do not exceed, with this scholarship contract, including possible renewals, an accumulated period of two years in that typology of the scholarship, followed or interpolated.

and

Requirement 2:

- Hold a master's degree in Chemical Engineering, or related field.

If the degree has been awarded by a foreign higher education institution, it must comply with the provisions of the Decree-Law no. 66/2018, of august 16th, and any formalities established there must be fulfilled until the time of signing the contract.

Activity Outline: The work to be carried out is part of the objectives of the WASTENERGY project, namely thermodynamic simulation of the process and synthesis, characterization and tests with catalysts for steam reforming reactions of distilleries wastewater. The tasks mainly consist of evaluating the performance of different catalysts in reforming reactions, optimizing the reaction conditions, and assessing the stability of the best catalysts.

Legislation and regulations: Law N.º. 40/2004, of 18th August, in its current wording (Statutes of Scientific Research Fellow) and Regulation of Research Grants of Fundação para a Ciência e a

Tecnologia, in force (<https://www.fct.pt/financiamento/programas-de-financiamento/bolsas/>) and Regulation of Research Grants of University of Porto, in force.

Work place: The work will be developed at the Department of Chemical Engineering of the Faculty of Engineering of the University of Porto (FEUP), under the scientific supervision of Professor Luís Miguel Madeira and Doctor Miguel Soria.

Grant duration: Initial duration of 12 months, with the predicted starting date in November 2023, on an exclusive basis, eventually renewable but never exceeding the project duration.

If it is not possible to ensure the duration of 12 months estimated in the previous paragraph, this duration will be adjusted according to the end date of the project, and provided that the minimum duration of 3 consecutive months is guaranteed, in accordance with paragraph 3 of article 6 of the Research Grant Regulations of the Foundation for Science and Technology, I.P.

The eventual renewal of the scholarship will be carried out as determined in article 6 of the Research Grants Regulation of the Foundation for Science and Technology, I.P.

Stipend: The monthly amount of the grant varies between 1.199,64 euros, according to the table of values of the Regulation of Research Grants of Fundação para a Ciência e a Tecnologia, in force <https://www.fct.pt/financiamento/programas-de-financiamento/bolsas/>, and 1.449,64 euros, depending on the profile and previous experience of the candidate in the project area. The payment will be made by bank transfer. If the amount to be paid exceeds 1,199.64 euros, the remaining amount will be covered by funds from FEUP, which do not come from funding. Payment will be made by bank transfer.

Selection procedure:

The curriculum of the candidates will be evaluated (60%) based on the merit of the candidate and the following factors will be weighted:

- a) Academic training (Master in Chemical Engineering- 10 points; Master in related areas –5 points; Others Masters – 2 points);
- b) Final classification (weighted for 5 years – Integrated Masters or Bachelor + Masters, on a scale of 0-20 values: greater than or equal to 17 values – 5 points; 15-16 values – 4 points; 13-14 values – 3 points; 11-12 values – 2 points; 10 values – 1 point);
- c) Other activities, including research experience and knowledge in the area of work planning, organization and participation in events and other activities – up to 5 points.

The curriculum of each candidate will be evaluated in a 1-20 points scale. Candidates with less than 10 points in the curricular evaluation will not be invited for the interview (40 %); only the three best candidates upon evaluation of the curricular part will be selected for the interview. In the interview topics related with the work plan, English knowledge, motivation, experience and the candidate's CV will be discussed with the invited candidates.

Selection Jury:

President: Professor Luís Miguel Palma Madeira

Effective member: Doctor Miguel Angel Soria

Effective member: Doctor Carmen Susana de Deus Rodrigues

Supplementary member: Doctor Cláudio da Silva Rocha

Supplementary member: Doctor Nuno Miguel Ratola Neto

Advertisement of final decision: The results of the evaluation will be released to the candidates by email to the email address indicated in the application process.

Deadline for applications and form of presentation of the applications:

The call is open from 20-10-2023 to 03-11-2023 (until 23h59m, GMT time).

Applications must be formalized by email to mmadeira@fe.up.pt and to recursoshumanos@fe.up.pt, clearly stating the reference **FEUP- WASTENERGY_BM_II** and including the following documents:

- Motivation letter,
- Copy of certificates evidencing academic degree (referring the classification of each separated or integrated degree),
- detailed Curriculum Vitae;
- Declaration on honor that the candidate fulfills the requirement contained in article 6 of the Regulation for Research Grants of the Foundation for Science and Technology, I.P. (model below, for student enrolled in a non-academic degree course integrated in the educational project of a higher education institution, developed in association or cooperation with one or more R&D units) and
- other documents considered relevant by the applicant.

In order to assure that all documents can be read, the preferred saving format is the Portable Document Format (.pdf).

Declaration on honour

I, (identification of the scholarship holder), holder of the Citizen Card / Visa / Residence Permit no. valid until _____, declare under honour, to be in the conditions of no. 5 of article 6º of the Research Grants from FCT, IP - Regulation No. 950/2019, of 16 December.

Oporto, __/__/__

Signature

(scholarship holder)