

1 Research Grant Announcement (M/F)

Call open for applications for a research grant within the framework of project Adsorption Studies of Phenolic Compounds from Lignin Oxidation, reference Ads_Lig_LSRE_2024, financed by Faculty of Engineering of University of Porto, under the following conditions:

Scientific Area: Chemical Engineering

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, a requirement to be duly proven at the time of signing the contract.

or

- 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.

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: to perform adsorption equilibrium measurements of phenolic compounds (vanillin, vanillic acid and acetovanillone) with different eluents in a macroporous resin. The tests will be carried out in a shaking incubator with controlled temperature. Fixed bed experiments will be performed with the three components using eluent gradients based on results from adsorption equilibrium data.

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 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 Alexandre Filipe Porfírio Ferreira and Professor Ana Mafalda Peixoto Ribeiro.

Grant duration: Initial duration of **6 months**, with the predicted starting date in **April 2024**, on an exclusive basis eventually renewable but never exceeding the project duration.

If the contracting procedures do not allow the scholarship to have a minimum duration of 3 consecutive months, in accordance with paragraph 2 of article 10 of the Research Regulation of Research Grants of University of Porto, the grant will not be awarded.

The eventual renewal of the scholarship will be carried out as determined in article 10 of the Regulation of Research Grants of University of Porto.

Stipend: The grant stipend amounts between 1.259,64 euros, according to the table of values of the Research Regulation of Research Grants of University of Porto, and 1.339,64 euros, depending on the profile and previous experience of the candidate in the project area. The payment will be made by bank transfer.

Selection procedure:

The curriculum of the candidates (60%) will be evaluated 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 3 points, Others Masters – 0 points)
- b) Publications in the area of Adsorption Based Processes 5 points, Publications in related area – 2 points, Publications in other areas – 1 points
- c) Research Experience in the project area – 5 points; in related areas – 2 points; Other areas – 1 point

The curriculum of each candidate will be evaluated in a 1-20 points scale. Candidates with less than 15 points in the curricular evaluation will not be invited for the interview.

In the interview (40%) topics related with the work plan, experience and the candidate's CV will be discussed with the invited candidates.

If none of the candidates achieves a minimum final score of 15 points, the scholarship will not be awarded.

Selection Jury:

President: Professor Alexandre Filipe Porfírio Ferreira

Effective member: Professor Ana Mafalda Peixoto Ribeiro

Effective member: Professor Cláudia Sofia Castro Gomes da Silva

Supplementary member: Doctor Ricardo Jorge Nogueira dos Santos

Supplementary member: Doctor Vítor Jorge Pais Vilar

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 26-03-2024 to 09-04-2024 (until 23h59m, GMT time).

Applications must be formalized by email to aferreir@fe.up.pt and to recursoshumanos@fe.up.pt, clearly stating the reference **FEUP- Ads_Lig_LSRE_2024** and including the following pdf documents: Motivation letter, Copy of certificates evidencing academic degree (referring the classification of each separated or integrated degree), detailed Curriculum Vitae; 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).