

1 Research Grant Announcement (M/F)

Call open for applications for a research grant within the framework of Project PTDC/EQU-EPQ/30445/2017 – HXmeso - Process intensification in meso reactors with high heat exchange rates - POCI-01-0145-FEDER-030445 - funded by FEDER funds through COMPETE2020 - Programa Operacional Competitividade e Internacionalização (POCI) and by national funds (PIDDAC) through FCT/MCTES , under the following conditions:

Scientific Area: Chemical Engineering

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

- To be a student enrolled in a master degree or integrated master who has already completed the 180 credits corresponding to the first six curricular semesters in the area of Chemical Engineering, requirement to be proven at the time of signing the contract.

And

- Hold a bachelors' degree in Engineering Sciences 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: Characterization and simulation of the flow in NETmix reactors within Tasks 1 and 2 of HXmeso.

Legislation and regulations: Law Nº. 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/apoios/bolsas/regulamento.phtml.pt>) and Regulation of Research Grants of University of Porto.

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 Ricardo Santos.

Grant duration: Initial duration of **6 months**, with the predicted starting date in **January 2022**, on an exclusive basis eventually renewable but never exceeding the project duration.

Stipend: The grant stipend amounts to 835,98€ according to the table of values of the grants awarded directly by FCT, I.P. in the Country (<https://www.fct.pt/apoios/bolsas/valores>).

The payment will be made by bank transfer.

Selection procedure:

The curricular evaluation of the candidates will be evaluated based on the merit of the candidate and the following factors will be assessed:

- a) Academic education: Bachelor degree in Engineering Sciences – 5 points; other related areas – 1 point;
- b) Bachelor Degree's final classification: equal or higher than 16/20 - 5 points; equal to 15/20 – 4 points; equal to 14/20 – 3 points; other – 1 point.
- c) knowledge in ANSYS/Fluent applied to chemical reactors up to 5 points

Candidates who obtain a score equal to or greater than 12 points in the curriculum evaluation will be accepted for the interview. During the interview, topics related to the work plan will be discussed, less clear points in the candidate's CV will be clarified, and the fluency in Portuguese and English will be evaluated. The interview will have a maximum score of 5 points.

Candidates will be graded on a scale of 1 to 20 points. If the minimum score of 15 points is not achieved by any of the candidates, the scholarship will not be awarded.

The final scores results from the sum of the curricular evaluation and the interview.

Selection Jury:

President: Ricardo Jorge Nogueira dos Santos

Effective member: Madalena Maria Gomes de Queiroz Dias

Effective member: Cláudia Sofia Castro Gomes da Silva

Supplementary member: Yaidelin Josefina Alves Manriques

Supplementary member: Margarida Sarmiento e Cunha Abrunhosa de Brito

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 **15-11-2021 to 26-11-2021** (until 23h59m, GMT time).

Applications must be formalized by email to rsantos@fe.up.pt and to recursoshumanos@fe.up.pt, clearly stating the reference **FEUP-HXMESO-BI-2021** and including the following pdf documents:

- Motivation letter,
- Detailed Curriculum Vitae,
- Copy of certificates evidencing academic degree,
- other documents considered relevant by the applicant.

In order to guarantee the reading of all documents, the preferred recording format is the Portable Document Format (.pdf).

