

### 1 Research Initiation Grant (M/F)

Call open for applications for a Research Initiation Grant within the framework of project “Water Capture by Adsorption and Heat Pumps”, with reference FEUP-A2WCBC, financed by Faculty of Engineering of University of Porto, under the following conditions:

**Scientific Area:** Chemical Engineering

**Admission requirements:**

- Be a student enrolled in a higher technical professional course, in a bachelor's degree, in an integrated master's degree or in a master degree in the area of Chemical Engineering or related areas, a requirement to be duly proven at the time of signing the contract.

Or

- Be a holder of 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.

*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.*

In accordance with no. 3 of article 9º of the Regulation of Research Grants of University of Porto, the grant cannot be awarded to anyone who has already benefited from research grant awarded under the terms of Research Grant Holder Status

**Activity Outline:** Study the atmospheric water capture by adsorption-based processes and heat pumps. The study will be based on simulation work and optimization.

**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 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 Professor Alexandre Filipe Porfírio Ferreira, Professor Ana Mafalda Ribeiro, and Ph.D. Idelfonso Bessa dos Reis Nogueira., and on an exclusive basis.

**Grant duration:** Initial duration of 9 months, with the predicted starting date in **December of 2021**, on an exclusive basis eventually renewable but never exceeding the project duration.

The eventual renewal of the scholarship will be carried out as determined in article 9º of the Research Grants Regulation of the University of Porto.

**Stipend:** The grant stipend amounts to 446,12€ according to the table of values of the Research Grants Regulation of the University of Porto.

The payment will be made by bank transfer.

**Selection procedure:**

Curricular evaluation which will focus on the merit of the candidate and the following criteria will be valued:

1. Academic training in the area of Chemical Engineering - 6 points; related areas – 3 points; other areas - 0 points.
2. Academic training classification: average equal or higher than 16/20 - 6 points; average equal to 14/20 - 3 points; other - 0 points;
3. Computational experience named in the admission requirements - up to 3 points; computational experience in other areas - 2 points; no computational experience - 0 points;

The two best ranked candidates, according to the above criteria, will be called for an interview. This will have an additional score of up to 5 points.

If the minimum score of 10 points is not reached by any of the candidates, the scholarship may not be awarded.

**Selection Jury:**

President: Professor Alexandre Filipe Porfírio Ferreira

Effective member: Professor Ana Mafalda Ribeiro

Effective member: Ph.D. Idelfonso Bessa dos Reis Nogueira

Supplementary member: Professor Madalena Maria Gomes de Queiroz Dias

Supplementary member: Professor Alírio Egídio Rodrigues

**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 **23-11-2021** to **07-12-2021** (until 23h59m, GMT time).

Applications must be formalized by email to [aferreir@fe.up.pt](mailto:aferreir@fe.up.pt) and to [recursoshumanos@fe.up.pt](mailto:recursoshumanos@fe.up.pt), clearly stating the reference **FEUP- PDC2KRICT2021** and including the following pdf documents: Motivation letter, Copy of certificates evidencing academic degree (referring to the course average - for each cycle or integrated cycle - and grades in the course units ) detailed Curriculum Vitae,

Declaration on honor that the candidate fulfills the requirement contained in no. 3 of article 9º of the Regulation of Research Grants of the University of Porto (model below) and other documents considered relevant by the applicant.

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. 3 of article 9º of the Research Grants from University of Porto - Regulation No. 184/2021, of 03 March.

Oporto, \_\_/\_\_/\_\_

Signature

\_\_\_\_\_

(scholarship holder)