

1 Research Grant Announcement (M/F)

Call open for applications for a research grant within the framework of project H2-UI4PT: H2 Usage Improvement for Public Transport, with the reference POCI-01-0247-FEDER-039980, co-financed by the European Regional Development Fund (ERDF), through the Operational Programme for Competitiveness and Internationalization (COMPETE 2020), under the PORTUGAL 2020 Partnership Agreement, 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 and Biological Engineering or Environmental Engineering, a requirement to be duly proven at the time of signing the contract.

or

- To be 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 Environmental Engineering, or a 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 researcher will be involved in the following tasks:

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- Evaluation and analysis of new existing technological solutions for hydrogen cells;
- Development and characterization of fuel cells at a laboratory level;
- Detailed study of fuel cell degradation;
- Support the integration of fuel cells with lithium batteries;

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/apoios/bolsas/regulamento.phtml.pt>) and Regulation of Research Grants of University of Porto.

Workplace: 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 Adélio Mendes.

Grant duration: Initial duration of 6 months, with the predicted starting date in December 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 6 of the Research Grants Regulation of the Foundation for Science and Technology, I.P.

Stipend: The monthly amount of the grant varies between 1,104.64 euros, according to the table of values of the grants awarded directly by FCT, I.P. in Portugal, and 1,355.00 euros, depending on the profile and previous experience of the candidate in the project area.

If the amount to be paid exceeds 1,104.64 euros, the remaining amount will be provided by FEUP funds, not coming from the funding.

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 will focus on the following factors:

- a) Academic training (Master in Chemical Engineering or Environmental Engineering - 5 points; Others Masters – 2 points)
- b) Master's degree rating: up to 14 points – 3 points; greater than 14 values – 5 points);

This classification is calculated as follows:

- In the case of an Integrated Master: Integrated Master final grade.

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- In the case of n-year Bachelor's Degree + 2-year Master's Degree: $n/(n + 2) \times$ Bachelor's degree Rating + $2/(n + 2) \times$ Master's degree rating.

c) Research Experience in the project area – 5 points; in related areas – 3 points; other areas – 1 point

d) Motivation and English proficiency will be evaluated through a the motivation letter written in English (1 to 5 points).

The curriculum of each candidate will be evaluated on a 1-20 points scale. Candidates with less than 13 points in the curricular evaluation will not be invited for the interview (40%).

In the interview, topics related to the work plan, experience, and the candidate's CV can be discussed with the invited candidates.

Selection Jury:

President: Professor Adélio Miguel Magalhães Mendes

Effective member: Doctor Paulo António Alves Ribeirinha

Effective member: Doctor Tânia Sofia Teixeira Lopes

Supplementary member: Doctor Seyedali Emami

Supplementary member: Doctor Paula Manuela Monteiro Pereira Costa Dias

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 formalised by email to mendes@fe.up.pt, paribeirinha@fe.up.pt and to recursoshumanos@fe.up.pt, clearly stating the reference **FEUP-H2UIPT-M2-2021** and including the following pdf documents:

- Motivation letter,
- Copy of certificates evidencing academic degree (referring to the rating of each separated or integrated degree),
- Detailed Curriculum Vitae,
- Declaration on honour that the candidate fulfils the requirement contained in article 6 of the Regulation for Research Grants of the Foundation for Science and Technology, I.P. (model

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below, in case of 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),

- Other documents considered relevant by the applicant.

In order to ensure 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)

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