

3 Research Grants Announcement (M/F)

Call open for applications for three Research Scholarships under the project “IntellWheels2.0 – Intelligent Wheelchair with Flexible Multimodal Interface and Realistic Simulator”, with the reference POCI-01-0247-FEDER-39898, co-financed by the European Regional Development Fund (ERDF), through the Competitiveness and Internationalization Operational Program (POCI).

Scientific area: Computer Engineering/ Electrotechnical and Computer Engineering/ Bioengineering/ Biomedical Engineering

Admission requirements: Candidates who cumulatively meet the following two requirements can apply for this competition:

Requirement 1:

- Be a student enrolled in a doctoral program in the area of Computer Science/Informatics Engineering, Electrotechnical and Computer Engineering, Bioengineering, Biomedical Engineering or related area 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, 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 Computer Engineering, Electrical and Computer Engineering, Bioengineering, Biomedical Engineering or related area.

If the qualification has been granted by a foreign higher education institution, it must comply with the provisions of Decree-Law No. 66/2018, of August 16, and any formalities established therein must be fulfilled by the time of signing the contract.

Work plan: The work is part of the Intellwheels 2.0 project objectives, related to the development of the core module of the Intellwheels framework including planning and navigation algorithms, specification and implementation of the multimodal interface with an emphasis on the use of computational learning for the interface adaptation module and its implementation. They will also

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contribute to the design of the system of serious games and final Intellwheels prototype and testing of all components and final evaluation of the system. They will also contribute to the Technical-Scientific Dissemination of the project's results.

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 in force.

Workplace: The work will be developed at the Artificial Intelligence and Computer Science Laboratory at DEI/FEUP – Department of Informatics Engineering of the Faculty of Engineering of the University of Porto, under the scientific guidance of Professor Luís Paulo Reis and other member of the project/researcher at FEUP/LIACC.

Grant Duration: Initial duration of 6 months, with the predicted starting date in June 2022, on an exclusive basis, eventually renewable, but not exceeding the project's conclusion date.

The eventual renewal will be carried out as determined in article 6 of the Regulation of Research Grants of Fundação para a Ciência e a Tecnologia.

If the recruitment procedures do not allow the grant to last for a minimum of 3 consecutive months, in accordance with paragraph 3 of article 6 of the Research Grant Regulations of the Foundation for Science and Technology, I.P. , the scholarship will not be awarded.

Stipend: The monthly amount of the grant varies between 1,144.64 €, according to the table of values of the grants awarded directly by FCT, I.P. in Portugal, and <https://www.fct.pt/apoios/bolsas/valores> and 1.544,64 €, depending on the profile and previous experience of the candidate in the project area. If the amount to be paid exceeds 1,144.64 €, the remaining amount will be provided by FEUP funds, not coming from the funding.

Payment will be made via bank transfer.

Selection Procedure:

Curriculum Evaluation, which will focus on the candidate's merits, in which the following factors will be considered, with the indicated weights, and in which all criteria will be evaluated by the jury on a scale of 0-10:

F1: Academic training - 40%

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F1a) Master's Degree Area or Master's Thesis theme - 50% (Master's degree/Thesis theme in Informatics Engineering, Electrotechnical Engineering, Bioengineering, Biomedical Engineering – 10 points, Master's degree/Thesis theme in related field – 5 points)

F1b) Final MSc Degree average grade (Masters or Integrated Masters) - 50%

F2: Scientific Publications in Indexed Journals and Conferences - 20%

F3: Previous experience in research work - 20%

F4: Motivation Letter - 20%

The candidate's curricular assessment (CA) classification will be obtained by the formula $CA = 0.4 \cdot F1 + 0.2 \cdot F2 + 0.2 \cdot F3 + 0.2 \cdot F4$, where: $F1 = 0.5 \cdot F1a + 0.5 \cdot F1b$; $F3 = 0.7 \cdot F3a + 0.3 \cdot F3b$

The four best ranked candidates will be selected for interview. In the selection interview, topics related to the work plan, previous experience, motivation and CV of the candidate will be discussed.

The final evaluation (FE) results from the weighted sum obtained in the Curricular Assessment (CA) and Selection Interview (SI) classifications, as follows: $FE = 75\% CA + 25\% SI$

Scholarships will only be awarded if the selected candidates obtain a final evaluation equal to or greater than 7 values (scale 0-10).

Composition of Selection Jury:

President — Professor Luís Paulo Gonçalves dos Reis

1st Effective member – Professor Armando Jorge Miranda de Sousa

2nd Effective member – Professor Brígida Mónica Teixeira de Faria

1st Substitute member – Professor Henrique Daniel de Avelar Lopes Cardoso

2nd Substitute member – Professor Ana Paula Cunha da Rocha

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 **19-05-2022 to 01-06-2022 (until 23h59m, GMT time)** for 10 working days.

Applications must be formalized by email to lpreis@fe.up.pt and recursoshumanos@fe.up.pt, clearly stating the reference in the subject (**FEUP-Intellwheels2-Mestre_IW2**), 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; 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 below, for student, enrolled in a non-

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academic degree course integrated into 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 6^o of the Research Grants from FCT, IP - Regulation No. 950/2019, of 16 December.

Porto, ____/____/_____

Signature

(Scholarship holder's signature)

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