

2 Postdoctoral research grants

Call open for applications for two Post-Doctoral Research Grants within the scope of 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), under the following conditions.

Scientific area: Computer Engineering, Electrical and Computer Engineering, Bioengineering

Admission requirements:

Candidates who cumulatively meet the following requirements may apply for these grants:

- a) Hold a PhD degree in Informatics Engineering, Electrical and Computer Engineering, Computer Science, Applied Mathematics, Bioengineering or related area, obtained in the last three years before the application to this grant;
- b) The Post-doctoral research is carried out in a host entity other than the one where the research work that led to the award of the PhD degree was developed.
- c) Do not exceed, with this scholarship contract, including renewals, an accumulated period of three years in this type of scholarship, followed or interpolated.

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.

Work plan: The work is part of the Intellwheels 2.0 project objectives, related to requirements specification, construction with the central module of the intelligent wheelchair, development of the multimodal interface, use of computer learning to adapt the interface to the patient, carrying out experiments within the scope the project with patients and data analysis under the Intellwheels2.0 project. Fellows will also contribute to the design of the 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.

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Workplace: The work will be developed at the Department of Informatics Engineering of the Faculty of Engineering of the University of Porto, under the scientific supervision of Professor Luís Paulo Reis and other researchers from the Intellwheels 2.0 Project, to be appointed later.

Grant duration: The grants will last for 6 months, starting in June 2022, on an exclusive basis regime, eventually renewable, up to the maximum of 3 years but not exceeding the end of the project. If the recruitment procedures do not allow the grant to last for a minimum of 3 consecutive months, in accordance with paragraph 6 of article 7 of the Research Grant Regulations of the Foundation for Science and Technology, I.P. , the scholarship will not be awarded.

Stipend: The grant stipend amounts to 1686,00€ according to the table of values of the grants awarded directly by FCT, I.P. in the Country. The payment will be made by 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 - 30%

F1a) Doctoral Area/Doctoral Theme - 70%

F1b) Undergraduate and Masters Area / Undergraduate and Masters Subjects - 30%

F2: Scientific production - 30%

Scientific publications of the last five years in Indexed Journals and Conferences (ISI Web of Knowledge/SCOPUS) and ISI/SCOPUS/Google Scholar citations to Scientific Papers.

F3: Previous experience in research work - 30%

Research activities as well as extension and management activities developed in the last five years are evaluated. This parameter includes the coordination and participation in R&D projects with an emphasis on projects in areas related to Intellwheels2.0, organization of conferences, symposia and scientific cooperation activities, activities for the preparation of R&D projects, guidance of doctoral students and master's degree.

F4: Motivation Letter -10%

Motivation letter describing the relevance of the scientific path to the position.

The candidate's final classification will be obtained by the formula $CF = 0.3 \cdot F1 + 0.3 \cdot F2 + 0.3 \cdot F3 + 0.1 \cdot F4$, where: $F1 = 0.7 \cdot F1a + 0.3 \cdot F1b$.

After ranking, an interview will be held, in person or by videoconference, to the 4 best ranked candidates in the curriculum evaluation, provided they have obtained a minimum score of 7.5 out of

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10. In the final ranking, the curriculum assessment will have a weighting of 75% and the interview will have weighting 25%. Scholarships will only be awarded if the selected candidates obtain a final weighted assessment equal to or greater than 8 points (scale 0-10).

Selection Jury:

President — Professor Luís Paulo Gonçalves dos Reis

1st Effective member – Professor Dr. Armando Jorge Miranda de Sousa

2nd Effective member - Professor Brígida Mónica Teixeira de Faria

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

2nd Supplementary 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 a 01-06-2022 (23h.59m, local time)**

Applications must be formalized, obligatorily, by email to lpreis@fe.up.pt and to recursoshumanos@fe.up.pt, should clearly state the reference (**FEUP-Intellwheels2-BolsaDoutor**), and must include:

- Certificate proving academic qualifications;
- Detailed curriculum vitae;
- Motivation letter written in English;
- Declaration on honor that it fulfills the requirement contained in paragraph c) of the admission requirements (template below);
- Other documents considered relevant by the candidate.

Declaration on honor

Me, _____ (identification of the fellow), holder of the Citizen Card / Visa / Residence Card no. _____, valid until _____, I declare on honor, under the terms of paragraph e) of no. Research Grants from FCT, IP - Regulation no. 950/2019, of 16 December, which will not exceed, with the scholarship contract in question, including possible renewals, an accumulated period of three years in this type of scholarship, followed or interpolated.

Porto, ___/___/____

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