

1 Research Grant Announcement (M/F)

Call open for applications for a research grant within the framework of project “URBAN-NET: Intelligent Networks for Carbon Neutral and Sustainable Cities”, with operation code, at the Funds Platform (Balcão dos Fundos), NORTE2030-FEDER-02697300, co-financed by NORTE 2030, by Portugal 2030 and by the European Union, in the framework of the Call NORTE2030-2024-84 (SACCCT - Sistema de Apoio à Criação de Conhecimento Científico e Tecnológico - Projetos Integrados de IC&DT), under the following conditions:

Scientific Area: Applied Sciences or Engineering

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

Requirement 1:

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

And

Requirement 2:

- Hold a bachelor's degree in Informatics and Computing Engineering 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: The URBAN-NET project is led by FEUP and involves the research units LIACC – Laboratory of Artificial Intelligence and Computer Science, CITTA – Research Centre for Territory, Transport and Environment, and SYSTEC – Research Centre for Systems and Technologies, as well as CMUP – the Mathematics Centre of the University of Porto, from the Faculty of Sciences of the University of Porto. The main goal of the project is to create an advanced digital platform that will allow users to plan their journeys efficiently, considering not only time and cost but also the environmental impact of each travel choice. The scholarship holder will be integrated into the project's R&D team and will actively participate in the development of smart mobility studies in urban environments, particularly in the analysis and modelling of mobility data. Statistical modelling software, as well as other data processing and analysis tools, will be used. The scholarship holder will

also contribute to modelling and simulation activities, as well as to the exploration and dissemination of the results. In particular, they will actively participate in the following activities:

A2. Data Collection and Fusion

A3. Data Persistence, Security and Integration

A8. Dissemination: Demonstration, Promotion and Communication

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/financiamento/programas-de-financiamento/bolsas/>) and Regulation of Research Grants of University of Porto, in force.

Work place: The work will be developed at the Department of Informatics Engineering of the Faculty of Engineering of the University of Porto (FEUP), under the scientific supervision of Professor Bruno Miguel Carvalhido Lima.

Grant duration: Initial duration of **6 months**, with the predicted starting date in **July 2025**, on an exclusive basis eventually renewable but never exceeding the end of the project.

If it is not possible to ensure the duration of 6 months estimated in the previous paragraph, this duration will be adjusted according to the end date of the project, and provided that the minimum duration of 3 consecutive months is guaranteed, in accordance with paragraph 3 of article 6 of the Research Grant Regulations of the Foundation for Science and Technology, I.P.

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 grant stipend amounts to 1,040.98 € according to the table of values of the grants awarded directly by FCT, I.P. in the Country (<https://www.fct.pt/financiamento/programas-de-financiamento/bolsas/>).

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 the following factors will be weighted:

- a) Academic training (bachelor in the area of Informatics and Computing Engineering – 5 points; bachelor is related area – 2 points)
- b) Experience in the areas of information systems, programming, and web development (up to 5 points)

c) knowledge in artificial intelligence and machine learning (up to 5 points)

d) English language, to be verified through a motivation letter (up to 5 points)

The curriculum of each candidate will be evaluated in a 1-20 points scale. Candidates with less than 14 points in the curricular evaluation will not be invited for the interview.

In the interview (40%) topics related with the work plan, experience and the candidate's CV will be discussed with the invited candidates.

If none of the candidates achieves a minimum final score of 16 points, the scholarship will not be awarded.

Selection Jury:

President: Professor Rosaldo José Fernandes Rossetti

Effective member: Professor Bruno Miguel Carvalhido Lima

Effective member: Professor Daniel Augusto Gama de Castro Silva

Supplementary member: Professor Sara Maria Pinho Ferreira

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 **12/06/2025 to 27/06/2025** (until 23h59m, GMT time).

Applications must be formalized by email to rossetti@fe.up.pt and to recursoshumanos@fe.up.pt, clearly stating the reference **FEUP-LIACC-3L** 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 honor that the candidate fulfills 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-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) 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 6º

of the Research Grants from FCT, IP - Regulation No. 950/2019, of 16 December.

Oporto, __/__/__

Signature

(scholarship holder)