

1 Research Scholarship (M/F)

This is a call for an open position to a Research Grant within the framework of the Programmatic Funding - UIDP/04234/2020 of the Research Centre in Real-Time and Embedded Computing Systems – CISTER - funded by national funds through the FCT/MCTES (PIDDAC), under the following conditions:

Scientific Area: Electrical and Computer Engineering.

Admission requirements: Candidates that are students enrolled in a doctoral program in the scientific area of this call may apply for this grant, a requirement to be duly proven at the time of hiring.

Work plan: Research activities in the field of embedded systems for the execution of machine learning algorithms.

Applicable legislation and regulations: Law Nº. 40/2004, of August 18, in its current wording (Statute of Scientific Research Scholarship holders) and Regulation of Research Grants from the Foundation for Science and Technology (<https://www.fct.pt/financiamento/programas-de-financiamento/bolsas/>) and Regulation of Scholarships of the University of Porto, in force.

Workplace: The work will be carried out at the CISTER Research Unit, in the Department of Electrical and Computer Engineering of the Faculty of Engineering of the University of Porto, and may involve work in other facilities of the same unit, and will take place under the scientific supervision of Pedro Alexandre Guimarães Lobo Ferreira Souto.

Duration of the scholarship and Activity Regime: The scholarship will last for 6 months, non-renewable, starting in July of 2024, on an exclusive basis, but never exceeding the project duration. The scholarship will be financed under the FCT funding for CISTER for the year 2024.

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

Value of the monthly allowance:

The monthly amount of the grant varies between 1,259.64 euros, according to the table of values of the grants awarded directly by FCT, I.P. in Portugal <https://www.fct.pt/financiamento/programas-de-financiamento/bolsas/> and 1.659,64 euros, depending on the profile and previous experience of the candidate in the project area.

If the amount to be paid exceeds 1,259.64 euros, the remaining amount will be provided by FEUP funds, not coming from the funding. Payment will be made via bank transfer.

Selection methods: A curriculum evaluation will be carried out, based on the merit of the candidates in which the following factors will be considered:

- a) Experience and general skills in the areas of embedded systems and machine learning (up to 7 points; other related areas - up to 2 points).
- b) Experience and specific skills concerning the execution of machine learning algorithms in embedded systems, namely with respect to the resources used and the impact on performance and with application in intrusion detection in networks with IoT devices (up to 8 points; other related specific areas- up to 3 points).
- c) Domain of the English language, to be verified through certificates and motivation letter (up to 3 points).
- d) Letters of recommendation (up to 2 points).

The curriculum evaluation of the candidates is obtained by the direct sum of the scores obtained in the aforementioned factors, resulting in a scale from 0 to 20 points. The three candidates best classified in the curriculum evaluation who have obtained a score equal to or greater than 13 points will be selected for an interview (20 points). During the interview, topics related to the work plan and the experience and CV of the candidate will be discussed. The final evaluation results from the weighted sum of the curriculum evaluation (60%) and the interview (40%).

Composition of the Selection Jury:

President: Professor Luís Miguel Pinho de Almeida, FEUP;

1st effective member: Professor Pedro Alexandre Guimarães Lobo Ferreira Souto, FEUP;

2nd effective member: Professor Mário Jorge Rodrigues de Sousa, FEUP;

1st alternate member: Professor Eduardo Manuel Médicis Tovar, ISEP;

2nd alternate member: Doctor Patrick Meumeu Yomsi, ISEP.

Form of publicizing/notification of results: The results of the evaluation will be communicated via email, to the email address indicated in the application process.

Application deadline and form of submission of applications:

The call is open from **23/04/2024 to 08/05/2024** (until 23:59 local time) Applications must be formalized, mandatorily, via email to lda@fe.up.pt and recursos humanos@fe.up.pt, indicating the reference of the project in the subject (**CISTER_P**), accompanied by the following documents:

- Letter of interest,
- Detailed curriculum vitae,
- Other documents considered relevant by the candidate.

In order to guarantee the correct reading of all documents, the preferred format for recording the respective files is the Portable Document Format (.pdf).