

CALL FOR GRANT APPLICATIONS (AE2023-0531)

INESC TEC is now accepting grant applications to award 1 Research Grant (BI) within the scope of the DBoidS funded by National Funds through FCT - Portuguese Foundation for Science and Technology, I.P., project reference PTDC/CCI-COM/2416/2021

1. GRANT DESCRIPTION

Type of grant: Research Grant (BI)

General scientific area: COMPUTER SCIENCE

Scientific subarea: Informatics

Area of Work: Human-Centred Computing

Grant duration: 11 months, starting on 2024-02-01.

Scientific advisor: Eduardo Pires

Workplace: INESC TEC, Vila Real, Portugal

Maintenance stipend: € 930,98, according to the table of monthly maintenance stipend for FCT grants , paid via bank transfer. Grant holders may be awarded potential supplements, according to a quarterly evaluation process (Articles 19, 21 and 22 of the Regulations for Grants of INESC TEC and Annex II), up to a maximum limit of 50% of the monthly maintenance stipend.

INESC TEC supports costs with registration, enrolment or tuition fees, during the grant duration, under the terms established in the internal document: "Payment of Tuition fees to grant holders".

The grant holder will benefit from health insurance, supported by INESC TEC.

2. OBJECTIVES:

- expand knowledge of the state of the art in the specific scientific area of the grant;
- identify and select the appropriate methods/models for the work plan;
- develop research ability through the application of selected methods;
- to have critical thinking in evaluating the research process and the obtained results ;
- launch new research initiatives and promote collaborative networks.

3. BRIEF PRESENTATION OF THE WORK PROGRAMME AND TRAINING:

- update the state of the art in Artificial Intelligence models applied to fire detection;
- update the state of the art in Artificial Intelligence models in the optimization of unmanned vehicles;
- develop models for fire detection;
- test algorithms to optimize the performance of unmanned aerial vehicles (UAV);
- writing scientific publications of the results and the activities report of the grant.



4. REQUIRED PROFILE:

Admission requirements:

Degree in computer science or similar, and Master student in Computer Engineering or similar The awarding of the fellowship is dependent on the applicants' enrolment in study cycle or non-award courses of

Higher Education Institutions.

Preference factors:

- experience in research into artificial intelligence and computer vision.
- research experience in fire prediction and detection.

Minimum requirements:

Ability to read, write and communicate in English.

5. EVALUATION OF APPLICATIONS AND SELECTION PROCESS:

Selection criteria and corresponding valuation: the first phase comprises the Academic Evaluation (AC), based on the criteria referred to in Article 12 of the Regulations for Grants of INESC TEC, while the second phase comprehends the Individual Interview (EI). All factors are evaluated on a scale of 0 to 100, taking into account the applicants' merit, suitability and conformity with the preference factors.

The weight of the AC factors are as follows: Academic Qualifications (FA, 50%), Scientific Publications (PC, 20%), Experience (EX, 20%) and Motivation Letter (CM, 10%).

Candidates who score less than 50 points in the AC average will be considered excluded on absolute merit. The top five candidates approved on absolute merit will be qualified for the individual interview. The Final Grade (CF) is obtained by the weighted average of AC (80%) and EI (20%).

The Selection Jury is composed of the following members:

President of the Jury: Arsénio Reis Full member: Eduardo Pires Full member: João Barroso Substitute member: Paulo Martins

Release of results and prior hearing: the results of the selection process, as well as the terms and procedures for prior hearing, will be released to the applicants by email, under the terms referred to in Article 13 of the Regulations for Studentships and Fellowships of INESC TEC.

6. FORMALISATION OF APPLICATIONS:

Application Documents:

- 1. Motivation letter;
- 2. Curriculum Vitae (must include the list of previous fellowships, their type, beginning and end dates, funding entities and host institutions);
- 3. Certificate or diploma degree;
- Proof of enrollment in a degree awarding study cycle or in a non degree awarding Higher Education program.
 The proof of enrollment may be presented just during the grant hiring stage.
- 5. Signed declaration stating the infringement of the grant holder's duties (article 14, no. 4)
- Documental evidence to support the country of residence, residence permit or other legally equivalent document, in cases where the applicant is a foreigner or non-resident in Portugal - valid until the beginning of the grant.
- 7. Other supporting documents relevant to the final assessment.

Failure to deliver the required documents within the 90-day period after the date of the notice of the conditional awarding of the grant implies its cancellation.

Application period: From 2023-12-28 to 2024-01-11

Submission of applications: the application will be formalised by submitting the form available in the *Work With Us* section of INESC TEC website.



7. BINDING LEGISLATION AND REGULATION

The hiring process shall comply with the current legislation regarding the Research Grant Holder Statute, approved by Law no. 40/2004 of August 18, in its current wording, as well as by the Regulations for Grants of INESC TEC and for FCT Grants Regulation in force.

For more information, please check the Regulations for Grants of INESC TEC and relevant annexes at www.inesctec.pt/bolsas



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