

## CALL FOR GRANT APPLICATIONS

(AE2026-0115)

INESC TEC is now accepting grant applications to award 1 Research Grant (BI) within the scope of the on the scope of the project VineShieldDT.

### 1. GRANT DESCRIPTION

**Type of grant:** Research Grant (BI)

**General scientific area:** COMPUTER SCIENCE

**Scientific subarea:**

**Area of Work:** COMPUTER SCIENCE

**Grant duration:** 6 months, starting on 2026-07-01.

**Scientific advisor:** Rui Jorge Ramos

**Workplace:** INESC TEC, Porto, Portugal

**Maintenance stipend:** € 1090.98, [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 the knowledge of the state of the art in the grant specific scientific domain;
- identify and select the appropriate methods for the study;
- develop the research capacity through the application of the selected methods;
- apply a critical spirit in the evaluation of the research process and the results obtained.

### 3. BRIEF PRESENTATION OF THE WORK PROGRAMME AND TRAINING:

- design a data lake architecture for sensor data, weather station data, and images captured by smart traps (e.g. OGC SensorThings + MinIO).
- propose and implement metadata and data quality mechanisms that enable the entire data universe to be aligned temporally and spatially.
- evaluate and test the solution's performance in terms of ingestion and query times, scalability with different data volumes, and ease of integration with artificial intelligence pipelines.
- write the grant activity report.

#### 4. REQUIRED PROFILE:

##### Admission requirements:

- Degree in Computer Science or similar;
- Student/attendee on a Master's Degree in Computer Science 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 web technologies (HTML, CSS and Javascript);
- experience with REST and WebSockets APIs;
- experience with the databases PostgreSQL and RethinkDB;
- proficiency in English, both written and spoken.

##### Minimum requirements:

- specialised education in Data Science, Data Mining or a related area;
- experience with databases, such as SQL;
- experience with the development of APIs;
- knowledge of the Python programming language;
- experience in UML design tools, such as Draw.io.

#### 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, 60%), Scientific Publications (PC, 0%), Experience (EX, 20%) and Motivation Letter (CM, 20%).

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%).

##### DISABILITY INCENTIVE

Candidates who present a degree of disability equal to or greater than 90% will benefit from an incentive (20) in the score of the CV Assessment.

Candidates who present a degree of disability equal to or greater than 60% and less than 90% will also benefit from an incentive (10) in the score of the CV Assessment.

Said score may, in these cases, exceed 100 points.

Candidates must demonstrate the degree of disability during the application, namely through the submission of the Multi-Purpose Medical Certificate of Disability, issued in accordance with Decree-Law no. 202/96, of October 23 currently in effect.

Candidates must declare, in the application form, the type of disability used throughout the selection process, in order to proceed with the required adaptations.

##### The Selection Jury is composed of the following members:

- President of the Jury: Ademar Aguiar
- Full member: Hugo Paredes
- Full member: Artur Rocha
- Substitute member:

**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;
4. 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)
6. 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 2026-05-07 to 2026-05-20

**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](http://www.inesctec.pt/bolsas)