

## CALL FOR GRANT APPLICATIONS (AE2026-0050)

INESC TEC is now accepting grant applications to award 1 Research Grant (BI) within the scope of the within the scope of the project S2GAILA with reference NORTE2030-FEDER-00866700 (15017) co-funded by the ERDF - European Regional Development Fund through North Regional Program - NORTE 2030 under the scope of Portugal 2030 and by National Funds through the FCT - Fundacao para a Ciencia e a Tecnologia, I.P. (Portuguese Foundation for Science and Technology).

### 1. GRANT DESCRIPTION

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

**General scientific area:** ENGINEERING

**Scientific subarea:** Industrial engineering

**Area of Work:** Multi-Agent Systems

**Grant duration:** 8 months, starting on 2026-04-01 with the possibility of being renewed for a maximum term of two years, in the cases of students enrolled in a master's degree.

**Scientific advisor:** Davide Rua Carneiro

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

**Maintenance stipend:** € 1040.98, [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:

- Broaden knowledge of the state of the art in the specific scientific area of the scholarship;
- Identify and select the appropriate methods for the study in question;
- Develop research skills through the application of the selected methods;
- Exercise critical thinking in the evaluation of the research process and the results obtained.

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

The scholarship's area of training is Multi-Agent Systems, focusing on the study, research and application of multi-agent architectures to the industrial domain. This involves the research and development of approaches that facilitate the adoption of agent-based solutions capable of cooperating, coordinating tasks and making decisions in a distributed manner, with the aim of increasing the autonomy and efficiency of organisations in implementing practical and scalable solutions.

In particular, the scholarship aims to investigate multi-agent architectures applicable to different industrial contexts, proposing an architecture that allows agents to connect to organisational information sources, ensuring robust mechanisms for data access, integration and governance. It also aims to explore ways of making the architecture configurable and adaptable to multiple industrial domains with minimal effort, using strategies such as modularity, parameterisation, reusable components and interaction patterns between agents.

Specifically, the main activities to be carried out by the scholarship holder are:

- Analyse the state of the art in multi-agent system architectures and frameworks, including mechanisms for

coordination, negotiation, planning, orchestration and communication between agents, identifying good practices and examples in the industrial context;

- Survey and specify requirements for a multi-agent architecture oriented towards industrial scenarios, including functional and non-functional requirements;
- Propose and detail an architecture that supports the connection of agents to organisational information sources, considering integration strategies (connectors, APIs, mediation layers), access policies and traceability/audit mechanisms;
- Investigate mechanisms that promote adaptability and portability between domains, reducing implementation and customisation effort;
- Collaborate in the development, integration, and validation of the architecture/prototype in realistic scenarios, including defining use cases, designing experiences, and evaluating performance and utility;
- Collaborate in the preparation of technical and scientific documentation, production of reports, and writing of activity reports, as well as in the systematisation of results and recommendations for industrial adoption.

#### 4. REQUIRED PROFILE:

##### Admission requirements:

Degree in computer engineering, information systems, or a related field;

The awarding of the fellowship is dependent on the applicants' enrolment in study cycle or non-award courses of Higher Education Institutions.

##### Preference factors:

Fluency in Portuguese.

##### Minimum requirements:

Bachelor's degree average above 12.

#### 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, 40%), Scientific Publications (PC, 20%), 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: Davide Rua Carneiro

Full member: Carla Pereira

Full member: Hugo Miguel Ferreira

Substitute member: António Lucas Soares

**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 2026-02-19 to 2026-03-04

**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)

