

CALL FOR GRANT APPLICATIONS

(AE2026-0200)

INESC TEC is now accepting grant applications to award 1 Research Grant (BI) within the scope of the Multiannual Funding of R&D Units 2025-2029, with the reference UID/50014/2025, Funded by national funds through the Portuguese Foundation for Science and Technology (FCT), I.P.

1. GRANT DESCRIPTION

Type of grant: Research Grant (BI)

General scientific area: ENGINEERING

Scientific subarea: Industrial engineering, Systems engineering

Area of Work: Operations management and optimization of complex and multimodal supply chains

Grant duration: 12 months, starting on 2026-09-01, with the possibility of being renewed until the end of the project.

Scientific advisor: Catarina Moreira Marques

Workplace: INESC TEC, Porto, Portugal

Maintenance stipend: € 1359.64, [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:

- Develop decision-support models for planning, scheduling, and supply chain management using advanced Operations Research, optimization, simulation, and data analytics techniques;
- Identify key performance indicators (KPIs) to assess the efficiency, resource utilization, and sustainability of supply chains;
- Validate the developed models through case studies, computational experiments, and performance analysis;
- Contribute to the scientific dissemination of the research outcomes through the writing of papers for international journals and conferences, the preparation of technical and scientific reports, and the participation in research and innovation activities carried out by the research group.

3. BRIEF PRESENTATION OF THE WORK PROGRAMME AND TRAINING:

The research plan includes the development and implementation of models based on Operations Research techniques, applied to the planning, scheduling, and coordination of resources in global supply chains and intermodal distribution networks, exploring synchromodal strategies to enhance the efficiency, flexibility, and resilience of the chains.



As part of the fellowship, the selected candidate will participate in the identification and characterization of real-world optimization problems, the definition of key performance indicators, the development and validation of advanced computational models, and the analysis of results through case studies and computational experiments.

The work plan also includes the preparation of scientific publications for international journals and presentations at national and international conferences, as well as the production of technical and scientific reports and the dissemination of research outcomes, fostering the development of research, scientific writing, and scientific communication skills.

4. REQUIRED PROFILE:

Admission requirements:

Master's degree in Industrial Engineering and Management or relevant related fields, focusing on the application of Operations Research methodologies, models, and algorithms in the context of logistics.

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

Preference factors:

- Relevant scientific publications in the field

Minimum requirements:

- Completed Master's degree in the indicated areas;
- Solid knowledge in Operations Research;
- Experience in planning and scheduling problems in the context of port logistics, intermodal distribution networks, or optimization problems of a similar nature;
- Experience in mathematical programming models and heuristic approaches;
- Advanced programming skills (Python or equivalent).

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, 30%) 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 (70%) and EI (30%).

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: Catarina Moreira Marques
Full member: Jorge Pinho de Sousa
Full member: Ana Maria Rodrigues
Substitute member: José Soeiro Ferreira

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 2026-07-16 to 2026-07-29

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

