

CALL FOR GRANT APPLICATIONS

(AE2026-0244)

INESC TEC is now accepting grant applications to award 1 Research Grant (BI) on the scope RENEE with reference 101138415 funded by the European Commission under the Horizon Europe program for the period 2021-2027.

1. GRANT DESCRIPTION

Type of grant: Research Grant (BI)

General scientific area: ENGINEERING

Scientific subarea: Systems engineering, Industrial engineering

Area of Work: Design and evaluation of production systems for remanufacturing

Grant duration: 12 months, starting on 2026-09-15, with the possibility of being renewed until the end of the project.

Scientific advisor: António Baptista

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:

- Participation in the activities of configuration, improvement and validation of tools and platforms for evaluating production systems oriented towards remanufacturing;
- Implementation, configuration and testing of frameworks and tools in remanufacturing testbed use cases, including their integration with simulation models and Digital Twins;
- Contributing to the development and evaluation of improvements at product, process and production system levels, using discrete-event simulation tools in the context of remanufacturing systems; their integration with AI methods, Reinforcement Learning and physical/robotic simulation for decision support may also be explored;
- Contribute to the preparation of the project's technical and scientific documentation, including scientific publications—namely journal articles and conference papers—and dissemination materials.

3. BRIEF PRESENTATION OF THE WORK PROGRAMME AND TRAINING:

- Implementation, configuration and validation of original tools for evaluating production systems oriented towards remanufacturing;



- Testing and validation of tools and platforms for evaluating production systems in the context of remanufacturing testbeds and industrial pilot projects;
- Development and evaluation of improvements at product, process and production system levels in the context of remanufacturing, using discrete-event modelling and simulation tools, as well as, where applicable, integration with Digital Twins, physical/robotic simulation, Artificial Intelligence techniques and Reinforcement Learning;
- Analysis and interpretation of experimental results, including the evaluation of the performance of the solutions developed in different operating scenarios;
- Preparation of technical and scientific documentation, including project reports, scientific publications and dissemination materials.

4. REQUIRED PROFILE:

Admission requirements:

Master's degree in systems engineering, mechanical engineering or electrical engineering.
The awarding of the fellowship is dependent on the applicants' enrolment in study cycle or non-award courses of Higher Education Institutions.

Preference factors:

- knowledge of complex production systems
- knowledge and previous experience in discrete production modelling and simulation
- knowledge and previous experience in physical/robotics modelling and simulation
- knowledge of the circular economy
- knowledge and previous experience in the field of remanufacturing
- basic knowledge of digital twins for complex production systems.

Minimum requirements:

- Master's degree average above 16;
- fluency in Portuguese, both spoken and written;

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: António Henrique Almeida

Full member: Ricardo Augusto Zimmermann

Full member: António Baptista

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 2026-08-06 to 2026-08-21

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



Funded by the
European Union