

CALL FOR GRANT APPLICATIONS (AE2025-0127)

INESC TEC is now accepting grant applications to award 1 Research Initiation Grant (BII) within the scope of the ATE funded by IAPMEI with reference 56 Co-financed by Component 5 - Capitalization and Business Innovation, integrated in the Resilience Dimension of the Recovery and Resilience Plan within the scope of the Recovery and Resilience Mechanism (MRR) of the European Union (EU), framed in the Next Generation EU, for the period 2021 - 2026.

1. GRANT DESCRIPTION

Type of grant: Research Initiation Grant (BII)

General scientific area: COMPUTER SCIENCE,ENGINEERING

Scientific subarea: Computer engineering

Area of Work: Computer Engineering

Grant duration: 8 months, starting on 2025-05-01.

Scientific advisor: José Silva

Workplace: INESC TEC, Porto, Portugal

Maintenance stipend: € 651,12, [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:

As part of the ATE project, the x-Energy laboratory has been developing hardware and software solutions for charging electric vehicles as well as solutions for managing them. Thus, the need arises to improve and create new ways to monitor and manage the entire charging infrastructure. This BI emerges in this context with the objective of supporting the development of a tool that allows its use by management and maintenance teams of the solutions created. The main objectives will be: 1) Contribute to the development of a multiplatform User Interface (UI) (e.g., mobile and web) for charger management. 2) Contribute to the implementation of the Continuous Improvement/Continuous Development (CI/CD) process 3) Contribute to research activities within the scope of the ATE project.

3. BRIEF PRESENTATION OF THE WORK PROGRAMME AND TRAINING:

1) Research the state of the art of cross-platform development tools; 2) Follow a pre-established design and implement a UI for charger management with two aspects: a. Charger user access; b. Administrator access. 3) Implementation of improvements to User Experience (UX) based on expected functionalities. 4) Automation of the build, testing, deployment and monitoring process for the software components of the loaders and management server following a microservices architecture; 5) Testing the UI with existing infrastructure. 6) Testing the automation process in a laboratory environment; 7) Writing complementary articles if there are innovative results.

4. REQUIRED PROFILE:

Admission requirements:

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

Preference factors:

- Previous experience (or academic training) in software engineering, computer science and similar. - Experience in developing web and mobile applications. - Understanding of CI/CD pipelines and Git version control (GitLab CI, Jenkins). - Experience with Docker or Kubernetes. - Solid experience with Python and JavaScript.

Minimum requirements:

Academic training in computer engineering, software or similar field.

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 (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: Ricardo Jorge Bessa

Full member: Justino Miguel Rodrigues

Full member: Tiago André Soares

Substitute member: Manuel Matos

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 not having benefited from any other research fellowship (Article 5, no. 5)
 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 2025-03-13 to 2025-04-13

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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