

CALL FOR GRANT APPLICATIONS (AE2023-0002)

INESC TEC is now accepting grant applications to award 1 Research Grant (BI) within the scope of the eduBEST funded by National Funds through FCT - Portuguese Foundation for Science and Technology, I.P., project (reference 2022.08686.PTDC)

1. GRANT DESCRIPTION

Type of grant: Research Grant (BI)

General scientific area: ENGINEERING

Scientific subarea: Industrial engineering

Grant duration: 6 months, starting on 2023-02-09 with the possibility of being renewed for a maximum term of one year, in cases where the grant has been awarded to students who are enrolled in non-award courses, or up to two years, in the cases of students enrolled in a master's degree.

Scientific advisor: Ana Camanho

Workplace: INESC TEC, Porto, Portugal

Maintenance stipend: € 875,98, according to the table of monthly maintenance stipend for FCT grants (<http://www.fct.pt/apoios/bolsas/valores>), 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:

Benchmarking education systems: Using Stochastic Frontier Analysis to assess country performance in education and training in the European Area.

3. BRIEF PRESENTATION OF THE WORK PROGRAMME AND TRAINING:

Education plays a fundamental role in the development of society, forming the basis for the sustainable development of nations through the development of human capital. However, our society today faces unprecedented challenges at various levels. It is therefore necessary to measure and evaluate the efficiency of education systems, some of them already annually monitored through strategic frameworks such as the European Commission's 2030 strategic framework for education and training. Thus, and given the growing importance of big data, the use of mathematical approaches based on statistical and economic principles is essential to test the impact of policy and regulatory changes in the performance levels of countries over time. Stochastic Frontier Analysis (SFA), together with the Malmquist productivity index, are ideal tools for conducting benchmarking analysis of education systems and exploring convergence in the context of the 2030 strategic framework for education and training.

The research to be developed under this grant will focus on the following aspects: (a) Contextualisation of the education landscape in the European Union; (b) Literature review, as complete as possible; (c) Identification of the knowledge gap that the research aims to cover; (d) Collection and processing of data, namely the KPIs relevant to the topic (in line with the scientific literature and the 2030 strategic framework for education and training); (e) Description of the Malmquist productivity index based on the SFA; (f) Analysis of the results; and (g) Discussion of the results, addressing potential implications in terms of public policies.

4. REQUIRED PROFILE:

Admission requirements:

Bachelor Degree in Industrial Engineering and Management.

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

Preference factors:

Good knowledge of the English language.

Minimum requirements:

Average mark of 13 in the Bachelor Degree in Industrial Engineering and Management.

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, 0%), Experience (EX, 20%) and Motivation Letter (CM, 30%).

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 (60%) and EI (40%).

The Selection Jury is composed of the following members:

President of the Jury: Ana Camanho

Full member: Miguel Alves Pereira

Full member: Flávia Barbosa

Substitute member: Henriqueta Nóvoa

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 fully recognised in Portugal;
 - Documents proving the awarding of academic degrees and diplomas, or the according recognition - in cases of academic degrees or diplomas granted by a foreign higher education institution - can be dismissed in the application process, and replaced by the applicant's declaration of honour, with the verification of said condition taking place during the grant's hiring stage. The submission of the certificate is mandatory when signing the contract.
 - Academic degrees or diplomas awarded by a foreign higher education institution require an authentication by a Portuguese higher education institution, and the corresponding registration on the DGES platform, in conformity with Decree-Law no. 66/2018, of August 16, and Ordinance no. 33/2019, of January 25. More information available on the website <https://www.dges.gov.pt/pt/pagina/reconhecimento?plid=374>
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 2023-01-11 to 2023-01-24

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



Governo da República Portuguesa

FCT

Fundação para a Ciência e a Tecnologia
MINISTÉRIO DA EDUCAÇÃO E CIÊNCIA