

CALL FOR GRANT APPLICATIONS (AE2023-0400)

INESC TEC is now accepting grant applications to award 1 Post Doctoral Research Grant (BIPD) 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: Post Doctoral Research Grant (BIPD)

General scientific area: ENGINEERING

Scientific subarea: Industrial engineering

Area of Work: Efficiency analysis and productivity

Grant duration: 12 months, starting on 2023-12-06, with the possibility of being renewed until the end of the project.

Scientific advisor: Ana Camanho

Workplace: INESC TEC, Porto, Portugal

Maintenance stipend: € 1741,00, [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:

- To develop innovative ways of evaluating the performance of education systems;
- To fairly and robustly compare educational institutions (schools and universities), countries or regions of the European Union using frontier methods.

3. BRIEF PRESENTATION OF THE WORK PROGRAMME AND TRAINING:

The work plan is centred on benchmarking European education systems using frontier methods (Data Envelopment Analysis, Stochastic Frontier Analysis), possibly complemented by multi-criteria analysis techniques and data science models (statistical or artificial intelligence methods). A temporal analysis of trends in the performance of education systems will be carried out, considering the dimensions of efficiency, effectiveness and equity. The research aims to obtain robust metrics that can be used to support the design of public policies to improve performance in the education sector. The research should be published in scientific journals, preferably indexed in the Scopus and Web of Science databases. The scholarship activity report should be prepared at the end of the scholarship period.

4. REQUIRED PROFILE:

Admission requirements:

Ph.D. in Industrial Engineering and Management or related field.

The PhD degree must have been obtained within the three years prior to the date of submission of the application and the research work leading to the award must have been carried out at a host entity other than INESC TEC.

Preference factors:

- Research experience in methods for analysing efficiency and productivity;
- Publication of articles in the area of Frontier Methods, with applications in the public sector;
- Participation in R&D and/or consultancy projects in areas relevant to the work plan to be carried out.

Minimum requirements:

Publication of 4 articles in journals classified in the areas of "Business, Management and Accounting", "Decision Sciences" or "Economics, Econometrics and Finance" in the Scimago Journal and Country Rank, with classification in the 1st Quartile (Q1) in at least one category that integrates these areas, in the reference year 2022.

Good knowledge of spoken and written English.

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, 30%), Scientific Publications (PC, 30%), 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 (60%) and EI (40%).

The Selection Jury is composed of the following members:

President of the Jury: Ana Camanho

Full member: Flávia Barbosa

Full member: Miguel Alves Pereira

Substitute member: Maria Conceição Andrade e Silva

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. 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.

5. 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 2023-11-06 to 2023-11-17

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