

## CALL FOR GRANT APPLICATIONS (AE2023-0490)

INESC TEC is now accepting grant applications to award 1 Research Grant (BI) within the scope of the HfPT funded by IAPMEI with reference 41 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 Grant (BI)

**General scientific area:** COMPUTER SCIENCE

**Scientific subarea:** Informatics

**Area of Work:** Computer Science

**Grant duration:** 6 months, starting on 2024-01-24, with the possibility of being renewed until the end of the project.

**Scientific advisor:** Carla Lopes

**Workplace:** INESC TEC, Porto, Portugal

**Maintenance stipend:** € 1199,64, [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:

- focusing on the clinical entities recognition, explore the application of Deep Learning models for high-resource languages (e.g., English) in low-resource languages (e.g., Portuguese);
- broaden knowledge of the state of the art in the specific scientific area of scholarship;
- identify and select the appropriate methods for the work plan;
- develop research capacity through the application of selected methods;
- exercise a critical spirit in evaluating the research process and the results obtained;
- document the results obtained through writing scientific articles.

### 3. BRIEF PRESENTATION OF THE WORK PROGRAMME AND TRAINING:

- identify parallel corpora of clinical data covering Portuguese and English;
- identify Deep Learning methods effective in recognizing clinical entities in Portuguese and English;
- extract clinical entities using previously identified methods and datasets;
- evaluate the impact of using models created for other languages and the consequent translation of extracted clinical entities on the general recognition process;
- write a scientific article about the work developed.

#### 4. REQUIRED PROFILE:

##### Admission requirements:

Master in computer science or similar area

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

##### Preference factors:

- experience in Natural Language Processing (NLP);
- experience in information extraction;
- knowledge of machine learning and data science methodologies;
- experience in research.

##### Minimum requirements:

- have Portuguese as a native language;
- ability to read, write and speak in 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, 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 (80%) and EI (20%).

##### The Selection Jury is composed of the following members:

President of the Jury: Carla Lopes

Full member: Ademar Aguiar

Full member: Filipe Figueiredo Correia

Substitute member: Sérgio Nunes

**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 2023-12-14 to 2023-12-28

**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](http://www.inesctec.pt/bolsas)

