

## CALL FOR GRANT APPLICATIONS (AE2021-0208)

INESC TEC is now accepting grant applications to award 1 Research Grant (BI) within the scope of the AgWearCare-1 funded by European Regional Development Fund (ERDF) and by the Operational Programme for Competitiveness and Internationalisation, project (reference NORTE-01-0247-FEDER-072624)

### 1. GRANT DESCRIPTION

**Type of grant:** Research Grant (BI)

**General scientific area:** COMPUTER SCIENCE,ENGINEERING

**Scientific subarea:** Programming,Informatics,Electrical engineering

**Grant duration:** 11 months 10 days, starting on 2021-11-22, with the possibility of being renewed until the end of the project.

**Scientific advisor:** João Mendes Moreira

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

**Maintenance stipend:** € 1104,64, 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.

Costs attributable to INESC TEC may include registration, enrolment or tuition fee stipend, either directly or through reimbursement, during the grant duration.

The grant holder will benefit from health insurance, supported by INESC TEC.

### 2. OBJECTIVES:

- Creation of a monitoring system for metrics analysis that supports the management of available human resources, assisting decision-making both in terms of well-being and productivity.
- Develop, integrate and test on the ground the application developed in order to prove its ability to solve problems.

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

- Study of art stay on health recognition and well-being with machine learning techniques
- Analysis of use cases and definition of specific goals and requirements (for example, what data should be used)
- Collect data and perform preprocessing (e.g. remove noise, damaged data, ...)
- Describe/study data from infrastructure (e.g. wearable data and sensors)
- Create Machine Learning models for Human Activity Recognition using Pocket Data Mining methods.
- Test and validate the models in laboratory and business environment.

#### 4. REQUIRED PROFILE:

##### Admission requirements:

Master's degree in Computer Science, Electrical, Informatic or similar

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

##### Preference factors:

- Enrollment in a doctoral program in Computer Science, Electrical, Informatic or similar; - Experience in participating in research projects; - Experience in Machine Learning, Data Mining

##### Minimum requirements:

- Final graduation mark higher or equal to 14.
- Fluency in English (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, 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: João Mendes Moreira

Full member: João Vinagre

Full member: Carlos Ferreira

Substitute member: Alípio Jorge

**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 2021-10-20 to 2021-11-03

**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)

