

INESC TEC | 1 Research Grant (BI) in Physics or Physics  
Engineering (AE2023-0036)  
INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=204807>

Downloaded On: May. 31, 2023 6:38am

Posted Feb. 1, 2023, set to expire Jun. 3, 2023

<b>Job Title</b>	INESC TEC   1 Research Grant (BI) in Physics or Physics Engineering (AE2023-0036)
<b>Department</b>	CAP
<b>Institution</b>	INESC TEC PORTO, , Portugal
<b>Date Posted</b>	Feb. 1, 2023
<b>Application Deadline</b>	Feb. 20, 2023
<b>Position Start Date</b>	Feb. 2, 2023
<b>Job Categories</b>	Graduate Student
<b>Academic Field(s)</b>	Engineering - Other
<b>Job Website</b>	<a href="https://www.inesctec.pt/en/opportunities/photronics-AE2023-0036#intro">https://www.inesctec.pt/en/opportunities/photronics-AE2023-0036#intro</a>
<b>Apply By Email</b>	
<b>Job Description</b>	

INESC TEC is now accepting grant applications to award 1 Research Grant (BI) within the scope of the CorkSurf funded by European Regional Development Fund (ERDF) and by the Operational Programme for Competitiveness and Internationalisation (NORTE 2020), project (reference NORTE-01-0247-FEDER-047040

### 1. GRANT DESCRIPTION

Type of grant: Research Grant (BI)

General scientific area: PHYSICS

Scientific subarea: Optics,Electronics

Grant duration: 3 months, starting on 2023-04-01.

INESC TEC | 1 Research Grant (BI) in Physics or Physics  
Engineering (AE2023-0036)  
INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=204807>

Downloaded On: May. 31, 2023 6:38am

Posted Feb. 1, 2023, set to expire Jun. 3, 2023

Scientific advisor: Pedro Jorge

Workplace: INESC TEC, Porto, Portugal

Maintenance stipend: € 1144,64, 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.

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:

-Optimization of the laser and spectrometer parameters in a LIBS system for the target samples.

-Signal analysis and processing using advanced computational methods.

-Automation of the positioning, and optical subsystems in the project prototype.

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

Laser induced breakdown spectroscopy (LIBS) will be evaluated to assess and map the distribution of thin

functional coatings in organic materials.

## 4. REQUIRED PROFILE:

Admission requirements:

MSc Degree in Physics or Physics Engineering.

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

Higher Education Institutions.

Preference factors:

Education background in Optics; Knowledge of Labview and Python; Knowledge in and plasma spectroscopy.

Minimum requirements:

Knowledge in optical sensors, lasers and plasma spectroscopy. Experience in automation.

## 5. EVALUATION OF APPLICATIONS AND SELECTION PROCESS:

Selection criteria and corresponding valuation: the first phase comprises the Academic Evaluation (AC), based

INESC TEC | 1 Research Grant (BI) in Physics or Physics  
Engineering (AE2023-0036)  
INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=204807>

Downloaded On: May. 31, 2023 6:38am

Posted Feb. 1, 2023, set to expire Jun. 3, 2023

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, 10%), Experience (EX, 50%) 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 (90%) and EI (10%). The Selection Jury is composed of the following members:  
President of the Jury: Pedro Jorge  
Full member: Nuno Azevedo Silva  
Full member: Paulo Vicente Marques  
Substitute member:  
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.

INESC TEC | 1 Research Grant (BI) in Physics or Physics  
Engineering (AE2023-0036)  
INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=204807>

Downloaded On: May. 31, 2023 6:38am

Posted Feb. 1, 2023, set to expire Jun. 3, 2023

? 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 2023-02-02 to 2023-02-20**

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)

**Contact Information**

INESC TEC | 1 Research Grant (BI) in Physics or Physics  
Engineering (AE2023-0036)  
INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=204807>

Downloaded On: May. 31, 2023 6:38am

Posted Feb. 1, 2023, set to expire Jun. 3, 2023

Please reference Academickeys in your cover letter when  
applying for or inquiring about this job announcement.

**Contact**

Portugal

**Contact E-mail**    rh@inesctec.pt