

INESCTEC | Research Grant (BI) (AE2024-0005) INESCTEC

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Posted Jan. 16, 2024, set to expire May 17, 2024

Job Title	INESCTEC Research Grant (BI) (AE2024-0005)
Department	CRAS
Institution	INESCTEC PORTO, , Portugal
Date Posted	Jan. 16, 2024
Application Deadline	Jan. 25, 2024
Position Start Date	Jan. 12, 2024
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other Electrical and/or Electronics
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Job Description	

INESC TEC is now accepting grant applications to award 1 Research Grant (BI) within the scope of the NEXUS

funded by IAPMEI with reference 53 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

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Type of grant: Research Grant (BI)

General scientific area: ENGINEERING

Scientific subarea: Electrical engineering

Area of Work:

Grant duration: 12 months, starting on 2024-02-14, with the possibility of being renewed until the end of the project.

Scientific advisor: André Dias

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:

The scope of the PRR NEXUS project will address the development of an inspection solution based on Hybrid

UAVs capable of carrying out autonomous inspection of photovoltaic panels periodically and completely autonomously.

In this sense, the candidate is expected to develop an aerial vehicle that allows vertical takeoff and landing, and

that allows for on-board and adaptive perception during the inspection process of photovoltaic panels.

3. BRIEF PRESENTATION OF THE WORK PROGRAMME AND TRAINING:

- Exploration of vision techniques for inspection of photovoltaic panels with aerial vehicles;
- Carry out the mechanical development of an aerial vehicle that allows vertical takeoff and landing;
- Development of a sensory payload that can be integrated into the developed prototype;
- Carry out preliminary flight tests and inspection of photovoltaic panels;
- Exercise a critical spirit in evaluating the research process and the results obtained.

4. REQUIRED PROFILE:

Admission requirements:

Master's degree in electrical engineering, computer science, bioengineering or a related field.

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

Higher Education Institutions.

Preference factors:

Proven experience in developing UAVs for photovoltaic panel inspection scenarios. Participation in scientific

projects, and writing scientific documents.

Proven experience in developing robotic platforms in terms of hardware and software.

Minimum requirements:

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, 35%), Scientific Publications (PC, 20%),

Experience (EX, 35%) 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: André Dias

Full member: Hugo Miguel Silva

Full member: Diana Viegas

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:

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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 2024-01-12 to 2024-01-25
- 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

Contact Information

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

Contact

Portugal

Contact E-mail rh@inesctec.pt