

INESCTEC | Research Initiation Grant (BII) (AE2024-0004)  
**INESCTEC**

Direct Link: <https://www.AcademicKeys.com/r?job=228872>

Downloaded On: May. 8, 2024 5:22pm

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

**Job Title** INESC TEC | Research Initiation Grant (BII) (AE2024-0004)  
**Department** CTM  
**Institution** INESC TEC  
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

**Apply Online Here** <https://www.inesctec.pt/en/opportunities/telecommunications-AE2024-0004>

**Apply By Email**

**Job Description**

INESC TEC is now accepting grant applications to award 2 Research Initiation Grant (BII) within the scope of the

ACOUSTNET funded by National Funds through FCT - Portuguese Foundation for Science and Technology, I.P.,

project reference LA/P/0063/2020

**1. GRANT DESCRIPTION**

Type of grant: Research Initiation Grant (BII)

General scientific area: ENGINEERING

Scientific subarea: Electrical engineering

Area of Work: Telecommunications

INESCTEC | Research Initiation Grant (BII) (AE2024-0004)  
INESCTEC

Direct Link: <https://www.AcademicKeys.com/r?job=228872>

Downloaded On: May. 8, 2024 5:22pm

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

Grant duration: 4 months, starting on 2024-03-01, with the possibility of being renewed for a maximum term of one year.

Scientific advisor: Rui Lopes Campos

Workplace: INESC TEC, Porto, Portugal

Maintenance stipend: € 541,12, 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:

- enlarge the knowledge on the state of the art in emerging wireless networks;
- identify and select the methodologies and approaches suitable for the development of the work;
- develop the grant holder research and development capabilities through the application of the methodologies and approaches selected;
- assess the research process and evaluate the obtained results with critical thinking.

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

- survey the state of the art in emerging wireless networks, including their simulation using real data assimilation, machine learning, and digital twin approaches;
- collaborate in the writing of technical reports on communications protocols, algorithms, and mechanisms developed;
- develop new modules enabling the simulation and/or experimentation of emerging wireless networks;
- write publications in co-authorship within the scope of the work developed;
- write the final activity report of the grant.

## 4. REQUIRED PROFILE:

Admission requirements:

Student in Electrical Engineering or similar

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

INESCTEC | Research Initiation Grant (BII) (AE2024-0004)  
INESCTEC

Direct Link: <https://www.AcademicKeys.com/r?job=228872>

Downloaded On: May. 8, 2024 5:22pm

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

courses of

Higher Education Institutions.

Preference factors:

- knowledge in IEEE 802.11, acoustic network links and IoT technologies;
- knowledge in discrete event-driven simulation.

Minimum requirements:

- solid knowledge in TCP/IP stack and Linux;
- programming skills in C++ and Python;
- research experience in wireless networks for the maritime environment, including underwater networks

#### 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, 10%),

Experience (EX, 30%) 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: Helder Martins Fontes

Full member: Rui Lopes Campos

Full member: André Filipe Coelho

Substitute member: Manuel Ricardo

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:

INESCTEC | Research Initiation Grant (BII) (AE2024-0004)  
**INESCTEC**

Direct Link: <https://www.AcademicKeys.com/r?job=228872>

Downloaded On: May. 8, 2024 5:22pm

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

**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 not having benefited from any other research fellowship (Article 5, no. 5)
  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](http://www.inesctec.pt/bolsas)

**Contact Information**

Please reference Academickeys in your cover letter when

INESCTEC | Research Initiation Grant (BII) (AE2024-0004)  
**INESCTEC**

Direct Link: <https://www.AcademicKeys.com/r?job=228872>

Downloaded On: May. 8, 2024 5:22pm

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

applying for or inquiring about this job announcement.

**Contact**

Portugal

**Contact E-mail**    rh@inesctec.pt