

INESC TEC | Research Initiation Grant (AE2025-0177) INESC TEC

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Posted May 5, 2025, set to expire Sep. 4, 2025

Job Title	INESC TEC Research Initiation Grant (AE2025-0177)
Department	CTM
Institution	INESC TEC PORTO, , Portugal
Date Posted	May 5, 2025
Application Deadline	May 15, 2025
Position Start Date	May 2, 2025
Job Categories	Graduate Student
Academic Field(s)	Electrical and/or Electronics Computer Engineering Engineering - Other
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Job Description	

Research Opportunities

Bioengineering, Computer Engineering and Computing, Electrical and Computing, Artificial Intelligence and Data Science and related areas

Work description

The fellow to be hired will contribute to the development of artificial intelligence-based solutions for

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automated analysis of polysomnography (vPSG) videos in the context of the diagnosis of sleep disorders, in particular REM sleep behavior disorder (RBD).

The activities to be performed aim to:

1. Annotation and preparation of data for training and validation of machine learning models, ensuring the quality and coherence of the data sets used.
2. Development and implementation of computer vision algorithms for detecting and analyzing specific RBD behaviors in vPSG videos.
3. Integration and testing of solutions in a simulated clinical environment, ensuring the applicability of the models developed in medical practice.
4. Participation in the analysis of results and in the benchmarking of the system against the manual evaluation of experts, aiming to measure gains in precision and efficiency.
5. Contribution to the scientific dissemination of the project, including writing scientific articles, preparing presentations for conferences and supporting the preparation of technical reports.

Academic Qualifications

- Student in Bioengineering, Computer Engineering and Computing, Electrical and Computing, Artificial Intelligence and Data Science and related areas

Minimum profile required

- Experience in Computer Vision and machine learning.

Preference factors

- Experience in research projects and writing of scientific papers.

Maintenance stipend: € 651.12, 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

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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.

Application Period

Since 02 May 2025 to 15 May 2025

Centre

Telecommunications and Multimedia

Scientific Advisor

[Daniela Santos](#)

What we offer

- **Multicultural and collaborative environment**
- A multicultural, international and collaborative environment that makes it easier to exchange ideas, work in networks and create synergies.
- **International projects**
- The possibility of working in international projects with some of the most important companies in the field.
- **Mentoring**
- Mentoring with the best researchers in the fields of electrical and industrial engineering, bioengineering, information technology and physics.

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- **Self Improvement**
- The possibility of participating in international conferences, workshops, seminars and vocational training.
- **Other Benefits and Perks**
- Flexible working time, health insurance, discounts in hotels, transportation, etc.
- **Informal Events**
- Annual informal events, such as the multicultural party.

For more information: [Click Here](#)

Contact Information

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

Contact

Portugal

Contact E-mail rh@inesctec.pt