

INESC TEC | Research Grant (AE2025-0381) INESC TEC

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Posted Aug. 29, 2025, set to expire Dec. 29, 2025

Job Title	INESC TEC Research Grant (AE2025-0381)
Department	CTM
Institution	INESC TEC PORTO, , Portugal
Date Posted	Aug. 29, 2025
Application Deadline	Sep. 11, 2025
Position Start Date	Available immediately
Job Categories	Graduate Student
Academic Field(s)	Computer Engineering Computer Science Electrical and/or Electronics Engineering - Other Bioengineering (all Bio-related fields)
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Job Description	

Research Opportunities

Bioengineering, Computer and Computational Engineering, Electrical and Computer Engineering, Artificial Intelligence and Data Science, and related fields

Work description

The fellow will contribute to developing artificial intelligence-based solutions for the automated analysis

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of polysomnography (vPSG) videos in the context of diagnosing sleep disorders, particularly REM sleep behavior disorder (RBD). The activities to be performed will include:

- Training and validation of machine learning models, ensuring the quality and consistency of the datasets used.
- Development and implementation of computer vision algorithms for detecting and analyzing RBD-specific behaviors in vPSG videos.
- Integration and testing solutions in a simulated clinical environment, ensuring the applicability of the developed models in clinical practice.
- Participate in the analysis of results and benchmark the system against manual expert evaluation, aiming to measure gains in accuracy and efficiency.
- 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

Students in Bioengineering, Computer and Computer Engineering, Electrical and Computer Engineering, Artificial Intelligence and Data Science, or related fields

Minimum profile required

Knowledge of Computer Vision and Machine Learning

Preference factors

Experience in research activities

Maintenance stipend: € 1040.98, 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.

Application Period

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Since 28 Aug 2025 to 11 Sep 2025

Centre

Telecommunications and Multimedia

Scientific Advisor

[Daniela Santos](#)

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Contact Information

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

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Contact

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