

INESC TEC | Research Grant (AE2024-496) INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=249465>

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Posted Nov. 22, 2024, set to expire Mar. 24, 2025

Job Title	INESC TEC Research Grant (AE2024-496)
Department	CTM
Institution	INESC TEC PORTO, , Portugal
Date Posted	Nov. 22, 2024
Application Deadline	Dec. 4, 2024
Position Start Date	Nov. 21, 2024
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other
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Job Description	

Research Opportunities

Computational Learning

Work description

Breast cancer (BC) is now the cancer with the highest incidence worldwide and a leading cause of cancer fatalities. Current standard treatment involves surgery combined with radiotherapy, however, 2/3 of early-detected BC tumors are clinically unpalpable.

These require invasive, less accurate localization procedures for a conservative therapeutic approach.

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To succeed, a fundamental scientific problem must first be solved: how does the breast, a highly deformable organ, change shape when a patient is in different postures, while scanned using different medical imaging modalities? In this project, we aim to develop a novel, hybrid in silico/physics-informed machine learning approaches, for generation of artificial data based on generative models and for multimodal data fusion.

The result will be cutting-edge, high-fidelity digital breast models with breast magnetic resonance imaging pose transformation from prone to supine, to predict tumor location.

Minimum profile required

- Experience in Computer Vision and machine learning.

Preference factors

- Experience in research projects, and writing of scientific papers.

Maintenance stipend: € 1259,64, 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.

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Application Period

Since 21 Nov 2024 to 04 Dec 2024

Centre

Telecommunications and Multimedia

Scientific Advisor

[Hélder Filipe Oliveira](#)

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.
- **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.

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Contact Information

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

Contact

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