

INESC TEC | RESEARCHER (AE2025-0049) INESC TEC

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Posted Jan. 31, 2025, set to expire Jun. 2, 2025

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|-----------------------------|-------------------------------------------------------------------------------------------------------|
| Job Title | INESC TEC RESEARCHER (AE2025-0049) |
| Department | CRAS |
| Institution | INESC TEC PORTO, , Portugal |
| Date Posted | Jan. 31, 2025 |
| Application Deadline | Feb. 12, 2025 |
| Position Start Date | Jan. 30, 2025 |
| Job Categories | Graduate Student |
| Academic Field(s) | Electrical and/or Electronics Engineering - Other |
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| Apply By Email | |
| Job Description | |

Research Opportunities

Robotics

Work description

- Conduct a survey of requirements for the development of a UAV for the indoor and outdoor scenario.
- Development of Deep Learning algorithms for identifying pathologies in photovoltaic panels.
- Development of algorithms that allow inventory reconciliation to be carried out in indoor scenarios

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through barcode reading.

- Development of algorithms that allow inspection of photovoltaic panels in outdoor scenarios.
- Development of a sensory payload that can be integrated into the developed prototype.
- Implement the algorithms in the ROS framework.
- Carry out preliminary flight tests with the developed UAV.
- Exercise a critical spirit in evaluating the research process and the results obtained.

Academic Qualifications

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

Minimum profile required

- Master's in Electrical Engineering

Preference factors

- Over 2 years of experience in developing robotic platforms, their conceptualization and design.
- Robot operative system ROS/ROS2, PX4, LiDAR, Stereo and Monocular vision, Perception, AI, ML, Path Planning Control, Sensor Fusion Algorithms.
- Previous experience in Deep Learning for identifying photovoltaic panels.
- Previous experience in AutoPilot for UAV / UAS.
- Previous experience in 3D modeling using Solidworks and Fusion;
- Real-Time Operating Systems: FreeRTOS.
- Participation in scientific projects and writing scientific documents.

Application Period

Since 30 Jan 2025 to 12 Feb 2025

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Centre

Robotics and Autonomous Systems

Scientific Advisor

[André Dias](#)

What we offer

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- A multicultural, international and collaborative environment that makes it easier to exchange ideas, work in networks and create synergies.
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- The possibility of working in international projects with some of the most important companies in the field.
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- Flexible working time, health insurance, discounts in hotels, transportation, etc.
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Contact Information

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Contact

Portugal

Contact E-mail rh@inesctec.pt