

## INESC TEC | RESEARCHER (AE2025-0049) INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=252502>

Downloaded On: Apr. 19, 2025 10:49am

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

<b>Job Title</b>	INESC TEC   RESEARCHER (AE2025-0049)
<b>Department</b>	CRAS
<b>Institution</b>	INESC TEC PORTO, , Portugal
<b>Date Posted</b>	Jan. 31, 2025
<b>Application Deadline</b>	Feb. 12, 2025
<b>Position Start Date</b>	Jan. 30, 2025
<b>Job Categories</b>	Graduate Student
<b>Academic Field(s)</b>	Electrical and/or Electronics Engineering - Other
<b>Apply Online Here</b>	<a href="https://www.inesctec.pt/en/form/notice/5296">https://www.inesctec.pt/en/form/notice/5296</a>
<b>Apply By Email</b>	
<b>Job Description</b>	

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

- **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.

For more information: [Click Here](#)

### Contact Information

**INESC TEC | RESEARCHER (AE2025-0049)**  
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Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

**Contact**

Portugal

**Contact E-mail**    rh@inesctec.pt