

INESC TEC | RESEARCHER (AE2024-0381) INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=244724>

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Posted Sep. 12, 2024, set to expire Jan. 12, 2025

Job Title	INESC TEC RESEARCHER (AE2024-0381)
Department	CRAS
Institution	INESC TEC PORTO, , Portugal

Date Posted	Sep. 12, 2024
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Application Deadline	Sep. 25, 2024
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Position Start Date	Sep. 12, 2024
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Job Categories	Graduate Student
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Academic Field(s)	Engineering - Other Bioengineering (all Bio-related fields) Computer Science Electrical and/or Electronics Robotics
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Job Description

Research Opportunities

Robotics

Work description

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1. Conduct a survey of requirements for the development of a UAV for the indoor and outdoor scenario;
2. Development of Deep Learning algorithms for identifying pathologies in photovoltaic panels;
3. Development of Deep Reinforcement Learning algorithms for indoor and outdoor navigation maneuvers;
4. Development of a sensory payload that can be integrated into the developed prototype;
5. Implement the algorithms in the ROS framework;
6. Carry out preliminary flight tests with the developed UAV;
7. 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 degree in Electrical Engineering and over 3 years of proven experience in developing robotic platforms in terms of hardware and software.
- Participation in scientific projects and writing scientific documents.

Preference factors

- Over 3 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 Deep Reinforcement Learning and Visual Inertial Odometry;
- Previous experience in AutoPilot for UAV / UAS;
- Previous experience in 3D modeling using Solidworks and Fusion;
- Real-Time Operating Systems: FreeRTOS

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Application Period

Since 12 Sep 2024 to 25 Sep 2024

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.

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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