

INESC TEC | Research Grant (AE2025-0366)
INESCTEC

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Posted Aug. 19, 2025, set to expire Dec. 14, 2025

Job Title INESC TEC | Research Grant (AE2025-0366)
Department CESE
Institution INESCTEC
PORTO, , Portugal

Date Posted Aug. 19, 2025

Application Deadline Aug. 28, 2025

Position Start Date Aug. 14, 2025

Job Categories Graduate Student

Academic Field(s) Robotics
Computer Science
Engineering - Other

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Job Description

Research Opportunities

Robotics

Work description

Development of a low-cost system for testing lithium-ion battery cells, using identification techniques to determine charge and discharge models. These models will be fundamental for the design of battery management systems (BMS) in autonomous maritime vehicles, such as submarines and boats.

The system will allow accurate estimation of the state of charge (SOC) and state of health (SOH) of the

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batteries, optimizing mission planning and allowing the scheduled replacement of cells without interruptions in the operation of the vehicles. Writing of the Grant reports.

Academic Qualifications

- Ongoing higher education training in the area of Electrical and Computer Engineering.

Minimum profile required

- Advanced knowledge of Python, C and C++.
- Experience in microcontroller design and hardware development.
- Proven experience and knowledge in the field of lithium batteries.
- Proven ability to work autonomously and proactively.

Preference factors

- Scientific Publications: Co-authorship of a scientific article at a conference or in a specific magazine on lithium battery testing.
- Experience in BMS Projects: History of working on projects related to battery management systems.
- Experience in collaborating on multidisciplinary projects.

Application Period

Since 14 Aug 2025 to 28 Aug 2025

Centre

Robotics and Autonomous Systems

Scientific Advisor

[Paulo Santos](#)

For more information: [Click Here](#)

Contact Information

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Contact

Portugal

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