

## INESC TEC | Research Grant (AE2025-0253) INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=258796>

Downloaded On: Aug. 20, 2025 3:37am

Posted Jun. 27, 2025, set to expire Oct. 27, 2025

|                             |   |
|-----------------------------|---|
| <b>Job Title</b>            | INESC TEC   Research Grant (AE2025-0253)  |
| <b>Department</b>           | CPES  |
| <b>Institution</b>          | INESC TEC<br>PORTO, , Portugal  |
| <b>Date Posted</b>          | Jun. 27, 2025   |
| <b>Application Deadline</b> | Jul. 25, 2025   |
| <b>Position Start Date</b>  | Jun. 26, 2025   |
| <b>Job Categories</b>       | Graduate Student  |
| <b>Academic Field(s)</b>    | Electrical and/or Electronics<br>Computer Engineering<br>Engineering - Other                          |
| <b>Apply Online Here</b>    | <a href="https://www.inesctec.pt/en/form/notice/5501">https://www.inesctec.pt/en/form/notice/5501</a> |
| <b>Apply By Email</b>       |   |
| <b>Job Description</b>      |   |

Research Opportunities

### Electrical and Computer Engineering

#### Work description

- Collaborate in the implementation of the power conversion chain between the AC power grid and the electrolyser.
- Studying bidirectional voltage and current power semiconductors and the respective

## INESC TEC | Research Grant (AE2025-0253) INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=258796>

Downloaded On: Aug. 20, 2025 3:37am

Posted Jun. 27, 2025, set to expire Oct. 27, 2025

requirements for driver circuits.

- Collaboration in the development of the experimental prototype of the AC/DC power conversion chain.
- Collaborate on the implementation of the digital controller for the converters.
- Write the grant activity report.

### Academic Qualifications

- Electrical Engineering or similar

### Minimum profile required

- Knowledge of power electronic systems, in particular AC/DC power conversion systems.
- Knowledge in embedded systems (ex. arduino, raspberry pi, etc.);

### Preference factors

- Past experience (or academic training) in power control and energy conversion systems.
- Knowledge of PLECS and Matlab/Simulink numerical simulation tools,
- Knowledge of programming in C, Python and MATLAB Script.
- Knowledge of programming for microprocessor systems.
- Knowledge of hardware for embedded systems.

**Maintenance stipend:** € 1040.98 or 1309.64, 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 | Research Grant (AE2025-0253) INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=258796>

Downloaded On: Aug. 20, 2025 3:37am

Posted Jun. 27, 2025, set to expire Oct. 27, 2025

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.

### Application Period

Since 26 Jun 2025 to 25 Jul 2025

### Centre

Power and Energy Systems

### Scientific Advisor

[Rui Esteves Araujo](#)

### 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**

## INESC TEC | Research Grant (AE2025-0253) INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=258796>

Downloaded On: Aug. 20, 2025 3:37am

Posted Jun. 27, 2025, set to expire Oct. 27, 2025

- 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

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

### Contact

INESC TEC - Instituto De Engenharia De Sistemas E  
Computadores, Tecnologia E Ciência  
Portugal

|                       |                |
|-----------------------|----------------|
| <b>Phone Number</b>   | 222094000      |
| <b>Contact E-mail</b> | rh@inesctec.pt |