

## INESC TEC | Research Initiation Grant (AE2024-0308) INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=243234>

Downloaded On: Aug. 17, 2024 12:19pm

Posted Aug. 16, 2024, set to expire Dec. 16, 2024

<b>Job Title</b>	INESC TEC   Research Initiation Grant (AE2024-0308)
<b>Department</b>	CPES
<b>Institution</b>	INESC TEC PORTO, , Portugal
<b>Date Posted</b>	Aug. 16, 2024
<b>Application Deadline</b>	Aug. 25, 2024
<b>Position Start Date</b>	Jul. 25, 2024
<b>Job Categories</b>	Graduate Student
<b>Academic Field(s)</b>	Engineering - Other
<b>Apply Online Here</b>	<a href="https://www.inesctec.pt/en/form/notice/4992">https://www.inesctec.pt/en/form/notice/4992</a>
<b>Apply By Email</b>	
<b>Job Description</b>	

Research Opportunity

### **Electrical Engineering**

#### **Work description**

- Analyze the current prototype of the air quality meter;
- Review the electronic circuit used in the meter;
- Update the control code of the meter;
- Enhance the existing communication system;

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- Create an intuitive dashboard for data presentation;
- Develop a new case for the meter.

### Minimum profile required

- Experience using microcontrollers such as Arduino and/or Raspberry Pi;
- Practical knowledge of sensors for measuring environmental variables such as temperature, humidity, gases, and particles;
- Experience with communication protocols;
- Knowledge in CAD design;
- Experience with 3D printing and CNC.

### Preference factors

- Knowledge in IoT concepts;
- Integration capacity of HW and SW for sensors;
- Experience with communication protocols like MQTT;
- Familiarity with development and debugging tools;
- Fluency in English (spoken and written).

**Maintenance stipend:** € 601,12, 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 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.

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### Application Period

Since 25 Jul 2024 to 25 Aug 2024

### Centre

Power and Energy Systems

### Scientific Advisor

[Pedro Pascoal](#)

### 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**

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