

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

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

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

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

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

Portugal

Contact E-mail rh@inesctec.pt