

INESC TEC | Research Initiation Grant (AE2024-0152) INESC TEC

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Posted May 2, 2024, set to expire Sep. 1, 2024

Job Title	INESC TEC Research Initiation Grant (AE2024-0152)
Department	CPES
Institution	INESC TEC PORTO, , Portugal
Date Posted	May 2, 2024
Application Deadline	Jun. 3, 2024
Position Start Date	May 2, 2024
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other
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Job Description	

Research Opportunity

Electrotechnical Engineering

Work description

- Study the current process of collecting consumption data for the INESC TEC building, identifying issues in the system, as well as potential solutions for solving these issues;
- Update or new development of the data collections process, applying more robust methods that allow for the quick detection and solving of failures in data collection;

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- Database development in Cassandra and API to make data available on Sentinel platform;
- Development of intuitive dashboards for presenting consumption and generation data, and their respective presentation in a browser environment;
- Development of the building's Digital Twin, considering data from different energy vectors (e.g. electricity and thermal);
- Prepare a technical report.

Academic Qualifications

- Degree in electrical engineering, computer science, applied mathematics or similar.

Minimum profile required

- Knowledge in one programming language;
- Basic knowledge in data analysis, ICT and IoT

Preference factors

- Experience in Python, SQL, C, Apache Cassandra and Grafana;
- 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.

Application Period

Since 02 May 2024 to 03 Jun 2024

Centre

Power and Energy Systems

Scientific Advisor

Tiago André Soares

What we offer

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- **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.

For more information: [Click Here](#)

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