

## INESC TEC | Research Grant (AE2024-0278) INESC TEC

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Posted Aug. 5, 2024, set to expire Dec. 5, 2024

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|-----------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Job Title</b>            | INESC TEC   Research Grant (AE2024-0278)                                                              |
| <b>Department</b>           | CBER                                                                                                  |
| <b>Institution</b>          | INESC TEC<br>PORTO, , Portugal                                                                        |
| <b>Date Posted</b>          | Aug. 5, 2024                                                                                          |
| <b>Application Deadline</b> | Aug. 7, 2024                                                                                          |
| <b>Position Start Date</b>  | Jul. 25, 2024                                                                                         |
| <b>Job Categories</b>       | Graduate Student                                                                                      |
| <b>Academic Field(s)</b>    | Bioengineering (all Bio-related fields)<br>Engineering - Other                                        |
| <b>Apply Online Here</b>    | <a href="https://www.inesctec.pt/en/form/notice/4998">https://www.inesctec.pt/en/form/notice/4998</a> |
| <b>Apply By Email</b>       |                                                                                                       |
| <b>Job Description</b>      |                                                                                                       |

Research Opportunity

**Application of signal processing and biomedical modelling methods to the field of Neuroengineering.**

### Work description

- Support in the acquisition and management of clinical data in the field of epilepsy, with a focus on patients with implanted deep brain stimulation systems.
- Using the data to implement new neurostimulation strategies by modelling brain stimulation

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strategies using brain atlases and combining them with brain signals.

- Investigating new interactions between different brain regions in order to optimise stimulation in patients with epileptic seizures.

### Academic Qualifications

Master in Biomedical Engineering, Electrical Engineering and Computers, Physics Engineering or similar.

### Minimum profile required

- Familiarization with the area of Neuroengineering using brain modelling tools, as well as brain atlases.
- Good knowledge of signal analysis and processing as well as programming.

### Preference factors

- Knowledge of artificial intelligence classification methodologies.
- Previous contact with the epilepsy area and preferably with deep brain stimulation signals.
- Previous contact with EEG data collection systems and familiarization with the clinical environment.

**Maintenance stipend:** € 990,98 or 1259,64, 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 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 25 Jul 2024 to 07 Aug 2024

### Centre

Biomedical Engineering Research

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### Scientific Advisor

[João Paulo Cunha](#)

### 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.

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

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**Contact E-mail**    rh@inesctec.pt