INESC TEC | Research Grant (AE2025-0351)
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Job Title	INESC TEC	Research Grant (AE2025-0351)
Department	HASLAB
Institution	INESC TEC
	BRAGA, , Portugal
Date Posted	Aug. 8, 2025
Application Deadline	Aug. 22, 2025
Position Start Date	Aug. 7, 2025
Job Categories	Graduate Student
Academic Field(s)	Computer Science
	Engineering - Other
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Job Description	

Research Opportunities

Computer Science

Work description

Responsibilities under the grant:

1. Design a system for managing the energy consumption of GPUs for LLMs.
2. Implement and optimize a prototype based on the initial design.

3. Conduct experimental evaluations of the developed prototype, using a variety of models and hardware devices (e.g., various processing and storage devices).

The tasks described in this work plan require the application and development of concepts and techniques from Computer Engineering, which are typically addressed in the core curriculum of the Integrated Master's Degree in Computer Engineering or the Master's Degree in Computer Engineering.

Academic Qualifications

- BSc Degree in Informatics Engineering Sciences.

Minimum profile required

- Solid knowledge of energy monitoring and energy control systems (i.e., Intel RAPL, PowerJoular, EnergAt, NVML, DVFS).
- Knowledge on deep learning frameworks and models (i.e., PyTorch, ResNet18, AlexNet, Cifar-10), as well as heterogenous workloads (e.g., cloud-based workloads, supercomputing workloads).
- Solid knowledge of operating systems.
- Solid knowledge of distributed systems.

Preference factors

- Experience in the design and development on energy control systems for GPUs.
- Solid knowledge in the state-of-the-art of energy control systems for deep learning.
- Experience with the C++ programming language.

Maintenance stipend: € 1040.98, 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.

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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 07 Aug 2025 to 22 Aug 2025

Centre

High-Assurance Software

Scientific Advisor

Ricardo Gonçalves Macedo

What we offer

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- 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,

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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