

INESC TEC | Research Initiation Grant (AE2025-0163)

INESC TEC

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Posted Apr. 11, 2025, set to expire Aug. 11, 2025

Job Title	INESC TEC Research Initiation Grant (AE2025-0163)
Department	HASLAB
Institution	INESC TEC BRAGA, , Portugal
Date Posted	Apr. 11, 2025
Application Deadline	Apr. 24, 2025
Position Start Date	Apr. 10, 2025
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other
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Job Description	

Research Opportunities

Operating systems

Work description

- Design of a key-value storage system that takes advantage of different remote and disaggregated storage devices, including persistent memory devices, NVMe SSD, and SATA SSD.
- Implementation of a prototype of the previous system and design of compaction algorithms that

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consider remote devices.

- Experimental evaluation of the developed prototype using synthetic and realistic workloads.

The tasks described in this working plan demand the application and development of concepts and techniques in the area of Software Engineering which are usually introduced in curricular units included in the curricula of the Integrated MSc in Informatics Engineering or the MSc in Informatics Engineering studies.

Academic Qualifications

- BSc Degree in Informatics Engineering.

Minimum profile required

- Knowledge on operating systems and distributed systems.
- Knowledge on storage systems.
- Experience with different key-value store systems, including RocksDB, BlobDB, Parallax, WiscKey, etc.

Preference factors

- Experience in designing and implementing key-value stores.
- Solid knowledge of heterogeneous storage stacks.

Maintenance stipend: € 651.12, 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

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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 10 Apr 2025 to 24 Apr 2025

Centre

High-Assurance Software

Scientific Advisor

[Ricardo Gonçalves Macedo](#)

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.
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- **Self Improvement**
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- **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