INESC TEC | Research Grant (AE2024-0433)
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Job Title	INESC TEC | Research Grant (AE2024-0433)
Department	HASLAB
Institution	INESC TEC
	PORTO, , Portugal
Date Posted	Oct. 18, 2024
Application Deadline	Oct. 30, 2024
Position Start Date	Oct. 17, 2024
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other
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Job Description	

Research Opportunities

Operating systems and security

Work description

The primary objective of the work to be undertaken during this grant is to design new storage solutions that incorporates advanced encryption techniques, robust access control, and reliable data recovery mechanisms, ensuring data privacy, continuity, and integrity, even in the face of corruption attempts.

Beyond designing these critical components, they must be integrated into a proof-of-concept prototype,

which will undergo experimental validation to assess its effectiveness. The experimental evaluation must also include profiling and diagnosis experiments to validate the correct execution of I/O operations.

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 Mestrados Integrados em Engenharia Informática ou de Mestrado em Engenharia Informática studies.

Academic Qualifications

- BSc Degree in Informatics Engineering Sciences.

Minimum profile required

- Knowledge on operating systems;
- Knowledge on storage system calls (POSIX interface);
- Knowledge on ransomware attacks;
- Experience with I/O diagnosing and profiling tools.

Preference factors

- Experience with ransomware attack analysis and detection tools.

Application Period

Since 17 Oct 2024 to 30 Oct 2024

Centre

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High-Assurance Software

Scientific Advisor

Tânia Conceição Araújo

What we offer

- **Multicultural and collaborative environment**
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- **International projects**
- The possibility of working in international projects with some of the most important companies in the field.
- **Mentoring**
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- **Self Improvement**
- The possibility of participating in international conferences, workshops, seminars and vocational training.
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- **Informal Events**
- Annual informal events, such as the multicultural party.

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Contact Information

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Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

Portugal

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