

INESC TEC | Research Grant (AE2024-0465)
INESC TEC

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Posted Nov. 20, 2024, set to expire Mar. 22, 2025

Job Title	INESC TEC Research Grant (AE2024-0465)
Department	HUMANISE
Institution	INESC TEC PORTO, , Portugal
Date Posted	Nov. 20, 2024
Application Deadline	Nov. 28, 2024
Position Start Date	Nov. 15, 2024
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other
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Job Description	

Research Opportunities

Computing, Electronics and Digital Systems

Work description

- Study the current LLVM / MLIR ecosystem and determine gaps and/or potential flows that can be reused to meet the objectives.
- Define the structural and computational features that you want to represent with IR (e.g., vectorization, streaming, in-memory computing, etc.).
- Iterate on the current syntax to represent new features and improve the current integration into

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flows within and/or outside the MLIR ecosystem.

- Study the feasibility of using the SRL DSL as a representation from which standard vector computing can be extracted.
- Write the activity report.

Academic Qualifications

- Master student of Informatics Engineering, Electrical and Computer Engineering or similar

Minimum profile required

- Experience in the C++ programming language.
- Fluency in English (spoken and written).

Preference factors

- Experience with compilers (parsing, and IRs), and the LLVM and/or MLIR ecosystem.
- Basic knowledge of assembly generation.

Application Period

Since 15 Nov 2024 to 28 Nov 2024

Centre

Human-Centered Computing and Information Science

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Scientific Advisor

[João Bispo](#)

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

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Portugal

Contact E-mail rh@inesctec.pt