

INESC TEC | Research Grant (AE2025-0328) INESC TEC

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Posted Aug. 1, 2025, set to expire Dec. 1, 2025

Job Title	INESC TEC Research Grant (AE2025-0328)
Department	HUMANISE
Institution	INESC TEC PORTO, , Portugal

Date Posted	Aug. 1, 2025
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Application Deadline	Aug. 6, 2025
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Position Start Date	Jul. 24, 2025
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Job Categories	Graduate Student
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Academic Field(s)	Computer Engineering Computer Science Engineering - Other
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Job Description

Research Opportunities

Computing, Electronics and Digital Systems

Work description

- Review the current state of the onnx-flow tool, the ONNX format, and mapping tools for CGRA.
- Implement new transformations that expose explicit scalar computation and reduce the complexity of composite nodes (e.g., MatMul, Conv, ReduceSum), with a focus on merging,

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removing redundant loops and coalescing dimensions.

- Create realistic examples of transformed ONNX models, and validate the mappability of the generated graphs with existing mapping tools.
- Collaboration in the writing of a scientific article to disseminate the results.

Academic Qualifications

- Degree or enrollment in a master's degree in electrical engineering, computer science, or a related field.

Minimum profile required

- Programming experience (ideally JS/TS).
- Fluency in English (written and spoken).

Preference factors

- Experience with structuring or manipulating graphs (e.g., ASTs, DFGs).
- Interest in compilers and/or familiarity with the ONNX format.
- Fluent in Portuguese and English (written and spoken).

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.

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".

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The grant holder will benefit from health insurance, supported by INESC TEC.

Application Period

Since 24 Jul 2025 to 06 Aug 2025

Centre

Human-Centered Computing and Information Science

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**

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- 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