

INESC TEC | Doctorate Researcher (AE2024-0578)
INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=251448>

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Posted Jan. 13, 2025, set to expire May 15, 2025

Job Title	INESC TEC Doctorate Researcher (AE2024-0578)
Department	HASLAB
Institution	INESC TEC BRAGA, , Portugal
Date Posted	Jan. 13, 2025
Application Deadline	Jan. 16, 2025
Position Start Date	Jan. 3, 2025
Job Categories	Graduate Student
Academic Field(s)	Electrical and/or Electronics Engineering - Other
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Job Description	

Research Opportunities

Computer Science

Academic Qualifications

- Electrical and Computer Engineering, IT, Physics

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Minimum profile required

- Proven competence and experience in developing applications in C++, C, Fortran and Python.
- Experience in developing parallel applications in shared memory, using technologies such as OpenMP, TBB, among others.
- Experience in developing parallel applications in distributed memory, using MPI.
- Experience in using profilers for the computational characterization of applications in shared and distributed memory environments such as VTune, TAU, Perf, among others.
- Knowledge of supercomputer architectures, including x86 and ARM processors, GPUs, and interconnection topologies.
- Practical experience in Linux systems, HPC environments and SLURM submission systems.
- Proficiency in written and oral communication in Portuguese and English.

Preference factors

- Knowledge and experience in high-performance libraries, such as FFTW, BLAS, LAPACK, Intel MKL.
- Knowledge of optimization techniques for multicore architectures, hardware accelerators, and communication standards.
- Experience in programming GPU accelerators using tools such as OpenCL, CUDA, OpenACC, among others.
- Experience in using scientific visualization tools, such as Paraview, Visit, YT.
- Experience in writing technical and scientific documentation in HPC, proven by active participation in conferences and workshops in the area.

Salary Level

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In accordance with article 15 of the RJEC and article 2 of Regulatory Decree no. 11-A/2017, of 29 December, the gross monthly base remuneration to be awarded is based on remuneration level 3 of the Investigador Júnior category of the Public Scientific Research Career Statute, with INESC TEC applying its own remuneration table for R&D doctoral employees, with a value of €2893.81 for the equivalent category.

Application Period

From 03 Jan 2025 to 16 Jan 2025

Center

High-Assurance Software

Scientific Advisor

António Luís Sousa

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

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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