INESC TEC | Doctor Researcher (AE2024-0487)
INESCTEC

Job Title	INESC TEC	Doctor Researcher (AE2024-0487)
Department	HASLAB
Institution	INESCTEC
	BRAGA, , Portugal
Date Posted	Nov. 22, 2024
Application Deadline	Dec. 4, 2024
Position Start Date	Nov. 21, 2024
Job Categories	Graduate Student
Academic Field(s)	Electrical and/or Electronics
	Computer Science
	Engineering - Other
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Apply By Email	
Job Description	

Research Opportunities

Computer Science (EN)

Academic Qualifications

- Electrical and Computer Engineering, Computer Science, Physics

Minimum profile required

a) Proven competence and experience in developing applications using C++, C, Fortran, and Python;

b) Experience in developing shared memory parallel applications using technologies like OpenMP, TBB, among others;

c) Experience in developing distributed memory parallel applications using MPI;

d) Experience using profilers for computational characterization of applications in shared and distributed memory environments, such as VTune, TAU, Perf, among others;

e) Knowledge of supercomputer architectures, including x86 and ARM processors, GPUs, and interconnection topologies;

f) Practical experience with Linux systems, HPC environments, and SLURM submission systems;

g) Proficiency in written and oral communication in both Portuguese and English.

Preference factors

h) Knowledge and experience with high-performance libraries such as FFTW, BLAS, LAPACK, Intel MKL;

i) Knowledge of optimization techniques for multicore architectures, hardware accelerators, and communication patterns;

j) Experience in GPU accelerator programming using tools like OpenCL, CUDA, OpenACC, among others;

k) Experience using scientific visualization tools like Paraview, Visit, YT;

l) Experience in writing technical and scientific documentation in HPC, demonstrated by active participation in conferences and workshops in the field.

Application Period

From 21 Nov 2024 to 04 Dec 2024

Centre

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 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

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