

INESC TEC | Research Initiation Grant (AE2024-0151) INESC TEC

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Posted Apr. 19, 2024, set to expire Aug. 19, 2024

Job Title	INESC TEC Research Initiation Grant (AE2024-0151)
Department	HASLAB
Institution	INESC TEC BRAGA, , Portugal
Date Posted	Apr. 19, 2024
Application Deadline	May 3, 2024
Position Start Date	Apr. 18, 2024
Job Categories	Graduate Student
Academic Field(s)	Bioengineering (all Bio-related fields) Engineering - Other
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Job Description	

Research Opportunity

Distributed Systems

Work description

- Design and implementation of artifact simulation models to serve the artifact correction model;
- Implementation and optimization of the artifact correction model in magnetic resonance images;
- Design and implementation of federated computing environments using NVIDIA Flare and Flower.
- Experimental validation of the prototype developed in HPC environments.

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The tasks described in this work plan require the application and development of concepts and techniques from the field of Biomedical Engineering, typically taught in curricular units that make up the core of the branch in Medical Informatics study plan.

Academic Qualifications

Enrolled in the Masters in Medical Informatics from the study plan of Biomedical Engineering.

Minimum profile required

- Solid knowledge of deep learning architectures and tools (i.e. TensorFlow, PyTorch, GANs, CNNs).
- Solid knowledge of medical image evaluation and metrics (i.e. SSIM, NMI).
- Solid knowledge of federated learning tools (i.e. Flower, NVIDIA Flare).
- Solid knowledge of distributed systems.

Preference factors

- Experience with the Python programming language.
- Experience in developing and applying deep learning models.
- Experience using federated learning tools.
- Experience using HPC environments (e.g. SLURM).

Maintenance stipend: € 601,12, 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.

Application Period

Since 18 Apr 2024 to 03 May 2024

Centre

High-Assurance Software

Scientific Advisor

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António Luís Sousa

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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