

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

Direct Link: <https://www.AcademicKeys.com/r?job=234921>

Downloaded On: May. 17, 2024 4:42am

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

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

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

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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