

Job offer

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LIP - Laboratório de Instrumentação e Física Experimental de Partículas | Posted on: 10 December 2024

Research Student Fellowship (BI – Bachelor) - Competence Centre for Simulation and Big Data

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10 Dec 2024

Job Information

Organisation/Company	LIP - Laboratório de Instrumentação e Física Experimental de Partículas
Department	LISBON
Research Field	Physics
Researcher Profile	First Stage Researcher (R1)
Positions	Bachelor Positions
Country	Portugal
Application Deadline	2 Jan 2025 - 17:00 (Europe/Lisbon)
Type of Contract	Other
Type of Contract Extra Information	Research Grant
Job Status	Full-time
Hours Per Week	35
Offer Starting Date	15 Jan 2025
Is the job funded through the EU Research Framework Programme?	Not funded by a EU programme
Reference Number	Competence Centre for Simulation and Big Data
Is the Job related to staff position within a Research Infrastructure?	No

Offer Description

LIP opens a call for selection of fellows for one Research Student Fellowship (BI – Bachelor) for participation in the context of the Competence Centre for Simulation and Big Data.

Work plan:

Large-scale land-cover mapping is a crucial tool for monitoring the Earth's surface and land use. Surveying the spatial distribution of urban areas as well as natural or human-made vegetation areas allows us to make informed decisions in topics that range from environmental and agriculture monitoring, to urban planning and disaster response.

The goal of this project is to employ cutting-edge machine learning techniques to categorize and map the different types of land cover in continental Portugal. Very-high-resolution satellite imagery obtained with the Pleiades Neo satellite in 2023 will be used, with a spatial resolution of 30 cm.

In this project, the student will join an interdisciplinary team to research and develop techniques that can perform pixel-level classification using the aforementioned high-resolution images and produce a land-cover map of continental Portugal. The scarcity of accurate training labels is an important challenge, which will be tackled using pre-existing low resolution maps and weak supervision techniques.

Legislation:

A fellowship contract will be established according to the Regulations for Research Grants of LIP and of the Foundation for Science and Technology and to the Status of Scientific Research Fellow (Law nº 40/2004, August 18th, and its successive amendments).

Duration:

The fellowship has a duration of 3 months, with a foreseen starting date on January 15, 2025. The fellowship may eventually be renewed, until the maximum foreseen in the project and according to the terms of the LIP/FCT regulations.

The working plan will be carried out remotely and / or at LIP-Lisbon under the supervision of Dr. Inês Ochoa.

Applicants should submit a curriculum vitae, Bachelor diploma and a list and grades of university courses and other relevant documents, as a PDF file, by email to natalia@lip.pt and vanda@lip.pt.

Where to apply

E-mail natalia@lip.pt

Requirements

Research Field Physics » Other

Education Level Bachelor Degree or equivalent

Skills/Qualifications

Main Research Field: Earth Observation, Machine Learning

Level: Degree in any physical science, data science, or equivalent

Specific Requirements

Python and/or Julia. Experience with deep learning tools.

Candidates must demonstrate the ability to learn new concepts and research techniques, and to carry out a research program.

Languages ENGLISH

Level Excellent

Research Field Physics

Years of Research Experience 1 - 4

Additional Information

Benefits

The monthly amount of 990,98€ is in accordance with the values stipulated in the LIP/FCT Regulation for Research Studentships and Fellowships:

https://www.fct.pt/wp-content/uploads/2024/02/Tabela-de-Valores-SMM_atu...

This amount will be paid on a monthly basis through a bank transfer to the grant holder's bank account.

Eligibility criteria

Applicants should fulfill the requirements to join a course granting a higher academic degree (Master) or in a non-academic degree course, as stipulated in the "Regulations for Research Grants of the Foundation for Science and Technology" (Article 6).

When contracting, it will also be necessary the candidate present a proof of enrollment in the course granting, or not, a higher academic degree.

In the event of the degree was awarded by a foreign higher education institution, the degree must comply with the provisions of the Decree-Law nº. 66/2018, of 16 august (<https://www.dges.gov.pt/en/pagina/degree-and-diploma-recognition?plid=1...>). The selected candidate must provide the recognition of the degree when signing the contract.

Selection process

Evaluation:

The members of the jury will take into consideration the CV (50%) and the research experience in the required field (50%). If none of the candidates fulfils the appropriate profile, the scholarship will not be awarded.

Members of the Jury:

- Dr. Inês Ochoa (LIP)
- Prof. Nuno Castro (LIP, Universidade do Minho)
- Prof. José Ricardo Gonçalo (LIP, Universidade de Coimbra)

Advertising / notification of results:

The results of the evaluation will be communicated by email; in case of disagreement, the candidates have a period of 10 working days to contest the decision, as provided for in the Code of Administrative Procedure in a preliminary hearing. At the end of this period, the arguments presented will be analysed by the jury committee, who will simultaneously communicate the final decision to all the candidates who submitted allegations. The final results of the shortlisted applicants will be communicated by e-mail. In case of disagreement, the candidates have a period of 15 working days to contest the decision.

Additional comments

Non-discrimination and equal access policy: LIP actively promotes a non-discrimination and equal access policy, wherefore no candidate can be privileged, benefited, impaired or deprived of any rights whatsoever, or be exempt of any duties based on their ancestry, age, sex, sexual preference, marital status, family and economic conditions, instruction, origin or social conditions, genetic heritage, reduced work capacity, di ability, chronic illness, nationality, ethnic origin or race, origin territory, language, religion, political or ideological convictions and union membership.

Website for additional job details <https://www.lip.pt/?section=about&page=recruitment>

Work Location(s)

Number of offers available

1

Country

Portugal

State/Province

LISBON

City

Lisbon

Geofield



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Contact

City

LISBON

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<http://www.lip.pt>

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