# EURAXESS

# Job offer

JOB   PORTUGAL

## Research Student Fellowship (BI – Master)

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31 Jul 2024

# Job Information

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|---|---|
| **Organisation/Company** | LIP - Laboratório de Instrumentação e Física Experimental de Partículas |
| **Department** | LISBON |
| **Research Field** | Physics |
| **Researcher Profile** | First Stage Researcher (R1) |
| **Positions** | Master Positions |
| **Country** | Portugal |
| **Application Deadline** | 14 Aug 2024 - 17:00 (Europe/Lisbon) |

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| **Type of Contract** | Temporary |
| **Job Status** | Full-time |
| **Hours Per Week** | 35 |
| **Offer Starting Date** | 1 Sep 2024 |
| **Is the job funded through the EU Research Framework Programme?** | Not funded by a EU programme |
| **Reference Number** | FCT RESTART Project |
| **Is the Job related to staff position within a Research Infrastructure?** | No |

# Offer Description

LIP opens a call for one Research Student Fellowship (BI - Master) for participating in the project "Physics Analysis & Next-generation Detector Design with Differentiable Algorithms", in the FCT RESTART framework.

**Work plan:**

This fellowship is intended for scientific research work within the scope of the ATLAS experiment at the Large Hadron Collider (LHC), at CERN. This project is part of the program of new physics searches carried out by the ATLAS experiment with the main goal of measuring anomalous couplings of the Higgs boson. In particular, the project will consist of the implementation of machine-learning based simulation-based inference for the search for CP violation in the coupling between the Higgs and the W boson. The student will join the LIP ATLAS team and will also collaborate with members of the ATLAS experiment from other institutes around the world. Their results will be presented and discussed in ATLAS collaboration meetings, both remotely and/or in person.

**Legislation:**

The fellowship contract will be established according to the "Regulations for Research Grants of the Foundation for Science and Technology" (https://dre.pt/application/conteudo/127238533) and to the Status of Scientific Research Fellow (Law nº 40/2004 de 18 de Agosto, and its successive amendments).

**Duration:**

The fellowship has a duration of 6 months, eventually renewable until the end of project, with a foreseen starting date in September 2024.

Applicants should submit a curriculum vitae, diploma and a list and grades of university courses and other relevant documents for the evaluation to vanda@lip.pt, natalia@lip.pt.

# Where to apply

| | |
|---|---|
| **E-mail** | vanda@lip.pt |

# Requirements

| | |
|---|---|
| **Research Field** | Physics |
| **Education Level** | Master Degree or equivalent |

**Skills/Qualifications**

The candidate should be fluent in English.

**Preference criteria:**

Experience with Linux systems, experience with C++ or python programming languages.

**Specific Requirements**

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

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| **Languages** | ENGLISH |
| **Research Field** | Physics |
| **Years of Research Experience** | 1 - 4 |

# Additional Information

**Benefits**

The monthly amount of 1 259,64€ is in accordance with the values stipulated in the "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 fulfil the requirements to join a course granting a higher academic degree (PhD) 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 adequacy of the candidate's profile to the project's needs (50%).

**Members of the Jury:**

Dr. Inês Ochoa, Dr. Rute Pedro, Prof. Nuno Castro

**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, disability, chronic illness, nationality, ethnic origin or race, origin territory, language, religion, political or ideological convictions and union membership.

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

# Work Location(s)

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|---|---|
| **Number of offers available** | 1 |
| **Company/Institute** | LIP - Laboratório de Instrumentação e Física Experimental de Partículas |
| **Country** | Portugal |
| **State/Province** | LISBON |
| **Geofield** | |
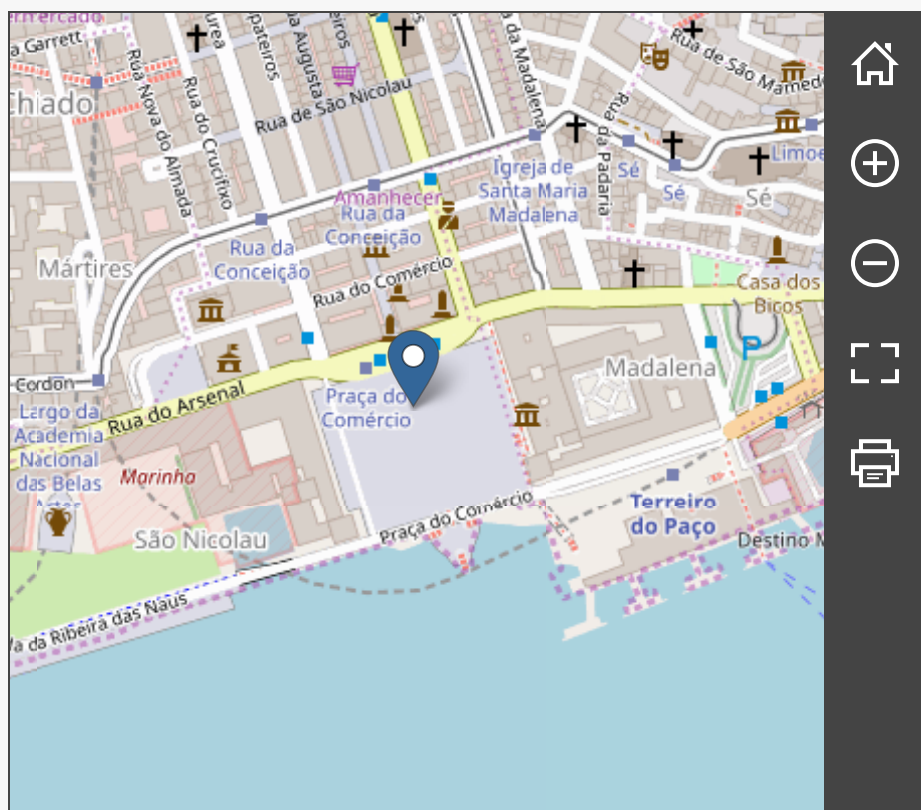


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# Contact

| | |
|---|---|
| **City** | LISBON |
| **Website** | http://www.lip.pt |
| **Street** | Av. Prof. Gama Pinto, nº 2 |
| **Postal Code** | 1649-003 |
| **E-Mail** | natalia@lip.pt |
| | vanda@lip.pt |

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