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# Job offer


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[LIP - Laboratório de Instrumentação e Física Experimental de Partículas](#) | Posted on: 20 March 2025

## Research Student Fellowship (BI – Master) - CMS Group

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20 Mar 2025

## Job Information

<b>Organisation/Company</b>	LIP - Laboratório de Instrumentação e Física Experimental de Partículas
<b>Department</b>	LISBON
<b>Research Field</b>	Physics
<b>Researcher Profile</b>	First Stage Researcher (R1)
<b>Positions</b>	Master Positions
<b>Country</b>	Portugal
<b>Application Deadline</b>	4 Apr 2025 - 17:00 (Europe/Lisbon)
<b>Type of Contract</b>	Other
<b>Type of Contract Extra Information</b>	Research Grant
<b>Job Status</b>	Full-time
<b>Hours Per Week</b>	35
<b>Offer Starting Date</b>	1 May 2025
<b>Is the job funded through the EU Research Framework Programme?</b>	Horizon Europe
<b>Reference Number</b>	101094300/Horizon-INFRA-2022-Dev-01
<b>Is the Job related to staff position within a Research Infrastructure?</b>	No

## Offer Description

LIP opens a call for selection of fellows for one **Research Student Fellowship (BI Master)** for participation in the project “MuCol: A design study for a Muon Collider complex at 10 TeV center of mass” - Ref. 101094300/Horizon-INFRA-2022-Dev-01, funded by EU Horizon.

### Work plan:

The recent European Accelerator R&D roadmap includes the Muon Collider as a novel project with renewed interest in the future of Particle Physics. This is based on the physics potential of a lepton collider with a center of mass energy of 10 TeV and on the recent advances in technology that make the realization of a muon collider possible. Muons are much heavier than electrons resulting in much reduced synchrotron radiation thus allowing acceleration and collision in compact dimensions. The work plan will be carried out in the framework of the activities of the LIP group in the MuCol project and the CMS experiment, one of the outstanding research groups in High Energy Physics in Portugal. At LIP, we operate a Tier-2 computer center, provide resources for data analysis both locally and as a part of the CMS computing grid.

The successful candidate will participate in the data analysis for the study of the Higgs boson properties and the sensitivity reach at a future Muon Collider to fully exploit the discovery opportunities in the search for New Physics.

### Legislation:

A fellowship contract will be established according to the Regulations for Research Grants of LIP <https://web.lip.pt/lfiles/Regulamento-Bolsas-Investigacao-BI-LIP.pdf>

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 6 months, eventually renewable to the maximum allowed by the project and in accordance with the current LIP Research Grant Regulations. The foreseen starting date is May 1, 2025.

Applicants should submit: a motivation letter, Curriculum Vitae, two reference letters, Master diploma and a list and grades of university courses and other relevant documents, as a PDF file, by email to [natalia@lip.pt](mailto:natalia@lip.pt) and [vanda@lip.pt](mailto:vanda@lip.pt)

## Where to apply

**E-mail** natalia@lip.pt

## Requirements

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

### Skills/Qualifications

The candidates should provide a clear demonstration of the ability 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 € 1309,64, is in accordance with the values stipulated in the “FCT Regulation for Research Studentships and Fellowships”:

[https://www.fct.pt/wp-content/uploads/2025/02/Tabela\\_valores\\_SMM\\_2025.pdf](https://www.fct.pt/wp-content/uploads/2025/02/Tabela_valores_SMM_2025.pdf)

This amount will be paid on a monthly basis through a bank transfer to the grant holder's bank account. Other components, such as installation or travel support, if applicable, will be paid according to the same rules.

### Eligibility criteria

Applicants should fulfill 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 signing the contract, the candidate must present a proof of enrollment in the course granting, or not, a higher academic degree.

In the event 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 fulfills the appropriate profile, the scholarship will not be awarded.

### Effective Members of the Jury:

- Prof. João Varela (LIP and IST)
- Dr. Jonathan Hollar (LIP)
- Dr. Michele Gallinaro (LIP and IST)
- Prof. Patricia Goncalves (IST and LIP)

### 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 analyzed 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 nondiscrimination 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.

### Website for additional job details

<https://www.lip.pt/?section=about&page=recruitment>

## Work Location(s)

### Number of offers available

1

### Company/Institute

LIP - Laboratório de Instrumentação e Física Experimental de Partículas

### Country

Portugal

### State/Province

LISBON

### City

LISBON

### Geofield

## 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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