

Job offer

JOB PORTUGAL

[LIP - Laboratório de Instrumentação e Física Experimental de Partículas](#) | Posted on: 5 September 2024

Research Student Fellowship (BI – Bachelor) - ATLAS Group

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5 Sep 2024

Job Information

Organisation/Company	LIP - Laboratório de Instrumentação e Física Experimental de Partículas
Department	LISBON
Research Field	Physics » Applied physics
Researcher Profile	First Stage Researcher (R1)
Positions	Bachelor Positions
Country	Portugal
Application Deadline	18 Sep 2024 - 17:00 (Europe/Lisbon)
Type of Contract	Temporary
Job Status	Full-time
Hours Per Week	35
Offer Starting Date	1 Oct 2024
Is the job funded through the EU Research Framework Programme?	Other EU programme
Reference Number	Ref. 2024.00227.CERN
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 project "Collaboration in the ATLAS Experiment at CERN: Data Taking and Analysis", project submitted in the framework of the Call for SR&TD Projects: Cooperation between Portugal and CERN, Ref. 2024.00227.CERN, funded by the Investment RE-C06-i06 – "Science Plus Training" of the PRR.

Work plan:

This grant is intended to carry out scientific work within the ATLAS project. The work plan will focus on developing an analysis to evaluate the sensitivity of the ATLAS experiment to anomalous couplings at the $h\text{b}\gamma$ vertex, within the framework of Effective Field Theory. The grantee will have to simulate the signal and all backgrounds, as well as study variables that allow the rejection of the backgrounds and the separation of different spin/CP components at the coupling vertex. In the end, the student will estimate the sensitivity for several luminosities (300 fb^{-1} , 3000 fb^{-1}) that are expected in the high luminosity phase of the LHC.

Legislation:

A fellowship contract will be established according to the "Regulations for Research Grants of the Foundation for Science and Technology" (<https://files.diariodarepublica.pt/2s/2019/12/241000000/0009100105.pdf>) and to the Status of Scientific Research Fellow (Law n° 40/2004, August 18th, and its successive amendments).

Duration:

The fellowship has a foreseen duration of 6 months, eventually renewable. The foreseen starting date is October 1, 2024.

Application:

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

Reference letters in support of the application may be submitted, but are optional.

Where to apply

E-mail vanda@lip.pt

Requirements

Research Field Physics » Applied physics
Education Level Bachelor Degree or equivalent

Skills/Qualifications

Preference will be given to candidates who already have knowledge of C/C++, ROOT, experience with Linux, knowledge of Monte Carlo generators (such as MadGraph and Phythia) and simulation tools in experimental particle physics or experience in data analysis in particle physics.

Specific Requirements

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 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 n.º 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.

Languages ENGLISH

Level Excellent

Research Field Physics » Applied physics

Additional Information

Benefits

The monthly amount of € 990,98, 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_atualizacao-2024.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 (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 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 n.º 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:

- Dr. Agostinho Gomes (LIP)
- Dra. Inês Ochoa (LIP)
- Dra. Rute Pedro (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

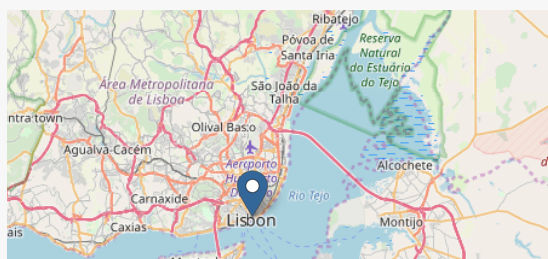
Non-discrimination and equal access policy: LIP actively promotes a non-discrimination and equal access policy, wherefore no candidate can be privileged, benefited, impaired or deprived of any rights whatsoever, or be exempt of any duties based on their ancestry, age, sex, sexual preference, marital 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.

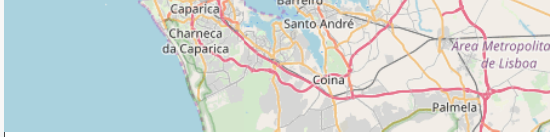
Website for additional job details <https://www.lip.pt/?section=about&page=recruitment>

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





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Contact

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E-Mail	natalia@lip.pt

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