

Job offer

JOB PORTUGAL

LIP - Laboratório de Instrumentação e Física Experimental de Partículas | Posted on: 2 December 2024

Research Student Fellowship (BI – Bachelor) - AMS Group

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2 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	15 Dec 2024 - 17:00 (Europe/Lisbon)
Type of Contract	Other
Type of Contract Extra Information	Research Fellowship
Job Status	Full-time
Hours Per Week	35
Offer Starting Date	1 Jan 2025
Is the job funded through the EU Research Framework Programme?	European Union / Next Generation EU
Reference Number	2024.00992.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 International Space Station experiment AMS for the detection of intermediate energy cosmic rays”, project submitted in the framework of the Call for SR&TD Projects: Cooperation between Portugal and CERN, Ref. 2024.00992.CERN, funded by the Investment RE-C06-i06 – “Science Plus Training” of the PRR.

Work plan:

This work plan will occur in the context of the activities carried out by the LIP group in the AMS cosmic rays experiment installed on the International Space Station in May 2011. The experiment includes a RICH detector measuring crossing particles' velocity and electric charge. The objective of this fellowship is to participate in the following three tasks aiming at correcting and implementing new features in the RICH velocity and charge reconstruction algorithms developed by the group: a) evaluate the number of detectable photons originating from the plastic foil ($n=1.46$) and consequently its inclusion as a second radiator of the RICH detector; b) characterise the time-variability of the velocity measurement and its correlation with the detector temperature; c) run LIP reconstruction with corrections on AMS data and implement a reconstruction graphics interface (GUI). The results obtained during this fellowship will be presented and discussed in meetings with AMS collaborators. This work plan is integrated in Task 1 of the project.

Legislation:

A fellowship contract will be established according to the Regulations for Research Grants of LIP and 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 3 months, eventually renewable. The foreseen starting date is January 1st, 2025.

Applicants should submit: a motivation letter, curriculum vitae, one or two reference letters, Bachelor diploma or certificate and a list of university courses and grades and other relevant documents, as a PDF file, by email to natalia@lip.pt and vanda@lip.pt. Reference letters in support of the application may be submitted, but are optional.

Where to apply

E-mail natalia@lip.pt

Requirements

Research Field Physics

Education Level Bachelor Degree or equivalent

Skills/Qualifications

The candidates should provide a clear demonstration of the ability to carry out a research program.

Specific Requirements

Preference will be given to candidates that have had an initial contact with Cosmic Ray experiments.

Languages ENGLISH

Level Excellent

Research Field Physics

Years of Research Experience None

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_atu...

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 nonacademic 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°. 66/2018, of 16 August (<https://www.dges.gov.pt/en/pagina/degree-and-diplomarecognition?plid=15...>). 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. Fernando Barão (LIP)
- Dra. Luísa Arruda (LIP)
- Dr. Miguel Orcinha (LIP/INFN)

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

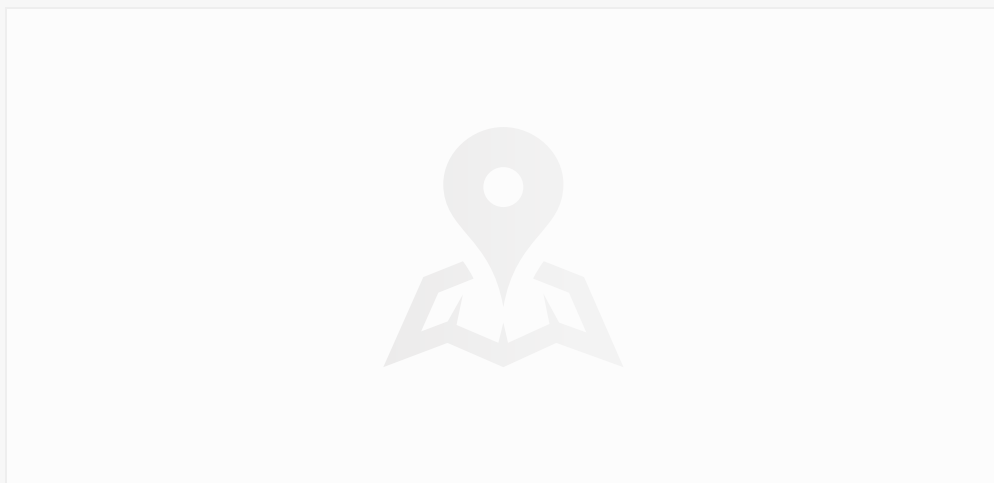
State/Province

LISBON

City

LISBON

Geofield



Contact

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Website

<http://www.lip.pt>

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E-Mail

natalia@lip.pt

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