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Job offer

JOB PORTUGAL

LIP - Laboratório de Instrumentação e Física Experimental de Partículas | Posted on: 16 December 2024

Research Student Fellowship (BI-Bachelor)

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16 Dec 2024

Job Information

Organisation/Company	LIP - Laboratório de Instrumentação e Física Experimental de Partículas
Department	Coimbra
Research Field	Physics » Applied physics
Researcher Profile	First Stage Researcher (R1)
Positions	Bachelor Positions
Country	Portugal
Application Deadline	31 Dec 2024 - 17:00 (Europe/Lisbon)
Type of Contract	Other
Type of Contract Extra Information	STUDENT FELLOWSHIP (Bachelor)
Job Status	Full-time
Hours Per Week	35
Offer Starting Date	1 Feb 2025
Is the job funded through the EU Research Framework Programme?	Not funded by a EU programme
Reference Number	2024.00269.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 “DRD1PT (Participação na Colaboração DRD1 no CERN)”, reference 2024.00269.CERN, funded by the program “Call for IC&DT Projects: Co-operation between Portugal and CERN“ (RE-C06-i06–“Ciência Mais Capacitação” do PRR).

Work plan:

The work plan will be carried out within the scope of task number 2 “nRPC: Development of RPC for neutron detection” of the aforementioned project. This task aims to extend the application area of the RPC-based neutron detection technology, previously limited to cold and thermal neutrons, to epithermal and fast ones.

The selected candidate will participate in the study that will investigate how the type, design, and characteristics of nRPC electrodes influence the dark count rate, with the objective of achieving its significant reduction. This is crucial for the application of this novel type of neutron detector, for example, in the study of neutron emission by exotic nuclei (e.g. at ISOLDE at CERN), homeland security (e.g. to Screen vehicles and cargo at ports and border crossings for nuclear materials that could be used in nuclear weapons), and in sensing cosmic-ray induced neutrons (e.g. for soil moisture monitoring), where the neutron flux is expected to be quite low.

Legislation:

The fellowship contract will be established according to the Status of Scientific Research Fellow (Law nº 40/2004, August 18th, and its successive amendments) and to the“Regulations for Research Grants of LIP and FCT (https://files.dre.pt/2s/2019/12/241000000/0009100105.pdf)

Duration:

The fellowship has a duration of **3 months**, with a foreseen starting date on **1st February 2025**. The fellowship may eventually be renewed, until the maximum foreseen in the project and according to the terms of the LIP regulations.

The working plan will be carried out at LIP-Coimbra, under the supervision of Doutor Luis Margato.

Application:

Applicants should submit: a motivation letter, a curriculum vitae (both in English) and other relevant documents, as a PDF file, by email to bolsas@coimbra.lip.pt.

Where to apply

E-mail	bolsas@coimbra.lip.pt

Requirements

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

Skills/Qualifications

Requirements:

The candidate must be enrolled in a Master degree in Physics Engineering or Physics, or in a non-academic degree course as mentioned in “Regulations for Research Grants of LIP”.

The candidate must show basic skills needed for conducting experimental research.

Specific Requirements

Preference criteria:

In-depth understanding of the interaction between ionizing radiation and matter, as well as the operating principles of radiation detectors, particularly neutron detectors.

Proficient in C++, Python, and other programming languages such as MATLAB.

Fluent in English.

Languages	ENGLISH
Level	Good
Research Field	Physics » Applied physics

Additional Information

Benefits

The monthly amount of **990,98€**, is in accordance with the values stipulated in the LIP and FCT “Regulation for Research Studentships and Fellowships-Anexo I”

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.

Eligibility criteria

Applicants should fulfil the requirements to join a course granting a higher academic degree or in a non-academic degree course, as stipulated in the “Regulations for Research Grants of LIP” (Article 5).

When contracting, it will also be necessary the candidate present a proof of enrolment 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 required field adequation (50%). If none of the candidates fulfills the appropriate profile, the scholarships will not be awarded.

Members of the Jury:

Effective

- Luis Margato
- Alberto Castro
- Andrey Morozov

Alternates

- Francisco Neves
- João Saraiva

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 - Coimbra
Country	Portugal
State/Province	Coimbra
City	Coimbra
Postal Code	3004-516
Street	Departamento de Física da Universidade de Coimbra, Rua Larga, 3004-516, Coimbra

Contact

City	Coimbra
Website	http://www.lip.pt
Street	Departamento de Física da Universidade de Coimbra, Rua Larga
Postal Code	3004-516
E-Mail	seclip@coimbra.lip.pt
Phone	+351 239 833 465

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