

30/09/2022

Research Student Fellowship (BI – Bachelor) - SCORE Project

Where to apply

Application Deadline: 17/10/2022 17:00 - Europe/London

Contact Details

Where to send your application.

COMPANY

LIP - Laboratório de Instrumentação e Física Experimental de Partículas

E-MAIL

ofelia@lip.pt

Hiring/Funding Organisation/Institute

ORGANISATION/COMPANY

LIP - Laboratório de Instrumentação e Física Experimental de Portugal
Partículas

DEPARTMENT

LISBON

ORGANISATION TYPE

Research Laboratory

WEBSITE

<http://www.lip.pt>

E-MAIL

natalia@lip.pt

ofelia@lip.pt

COUNTRY

CITY

LISBON

POSTAL CODE

1649-003

STREET

Av. Prof. Gama Pinto, nº 2

ORGANISATION/COMPANY

LIP - Laboratório de Instrumentação e Física Experimental de Partículas

RESEARCH FIELD

Physics

LOCATION

Portugal › LISBON

TYPE OF CONTRACT

Other

RESEARCHER PROFILE

First Stage Researcher (R1)

JOB STATUS

Full-time

APPLICATION DEADLINE

17/10/2022 17:00 - Europe/London

HOURS PER WEEK

35

OFFER STARTING DATE

01/11/2022

REFERENCE NUMBER

EXPL/FIS-NUC/0364/2021 - SCORE

OFFER DESCRIPTION

LIP opens a call for selection of fellows for one Research Student Fellowship (BI – Bachelor) for participation in the project “Short range CORrelations on Exotic nuclei at R3B/FAIR using tRPCs”, reference EXPL/FIS-NUC/0364/2021, funded by FCT/MCTES through national funds (State Budget – OE).

Work plan:

The work plan will be carried out in the context of the activities of the LIP NUC-RIA group, in particular, in the study of the response of the electromagnetic calorimeter CALIFA of the R3B experimental setup at the GSI/FAIR facility in Darmstadt (Germany) and its calibration with cosmic muons.

The candidate will develop the analysis and data interpretation tools to calibrate the high-energy proton branch of the scintillator detectors of the electromagnetic calorimeter using cosmic rays. This aspect is necessary to analyse the measurement of the Short Range Correlations in exotic nuclei recently performed at the R3B collaboration setup using for the first time Resistive Plate Chambers to measure the relativistic emitted protons.

The work will have both computational aspects as well interaction with members of the R3B collaboration sitting in Darmstadt, performing the measurement of the cosmic rays using the calorimeter. Use of analysis tools like ROOT and particle simulation transport tools like GEANT will be at the core of the work program.

The results of the work will pave the path to the correct interpretation of the results obtained in experiment S522, recently executed in Darmstadt, Germany.

Legislation:

A 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, August 18th, and its successive amendments).

Duration:

The fellowship has a duration of 6 months, with a foreseen starting date on November 1, 2022. The fellowship may eventually be renewed, until the maximum foreseen in the project and according to the terms of the FCT regulations.

The working plan will be carried out under the supervision of Prof. Daniel Galaviz.

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

More Information

ADDITIONAL INFORMATION

Benefits

The monthly amount of 875,98€ is in accordance with the values stipulated in the “FCT Regulation for Research Studentships and Fellowships”:

https://www.fct.pt/apoios/bolsas/docs/Tabela_de_Valores_SMM_2022.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 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 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=1536>). 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 fulfils the appropriate profile, the scholarship will not be awarded.

Members of the Jury:

Prof. Daniel Galaviz, (FCUL/LIP)

Dr. Alberto Blanco (LIP)

Prof. Luís Peralta (FCUL /LIP)

Dr. Jorge Sampaio (LIP) (Alternate member)

Prof. José Manuel Pires Marques (FCUL/LIP) (Alternate member)

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

Equality and non-discrimination Policy

We are committed to promoting equality and preventing discrimination, and welcome applications of all qualified candidates irrespective of their age, disability, gender, marital status, pregnancy, maternity, gender identity, race, colour, nationality, ethnicity or national origin, sexual orientation, religion or belief, social background or culture or trade union membership.

Web site for additional job details

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

REQUIREMENTS

Required Research Experiences

RESEARCH FIELD

Physics

YEARS OF RESEARCH EXPERIENCE

1 - 4

Offer Requirements

REQUIRED EDUCATION LEVEL

Physics: Bachelor Degree or equivalent

REQUIRED LANGUAGES

ENGLISH: Excellent

Skills/Qualifications

Level: Degree in Physics, Physical Engineering or equivalent

Knowledge of Nuclear Physics and Radiation Physics; experience in C++, ROOT and GEANT needed.

Knowledge on the computer framework R3BRoot will also be favoured.

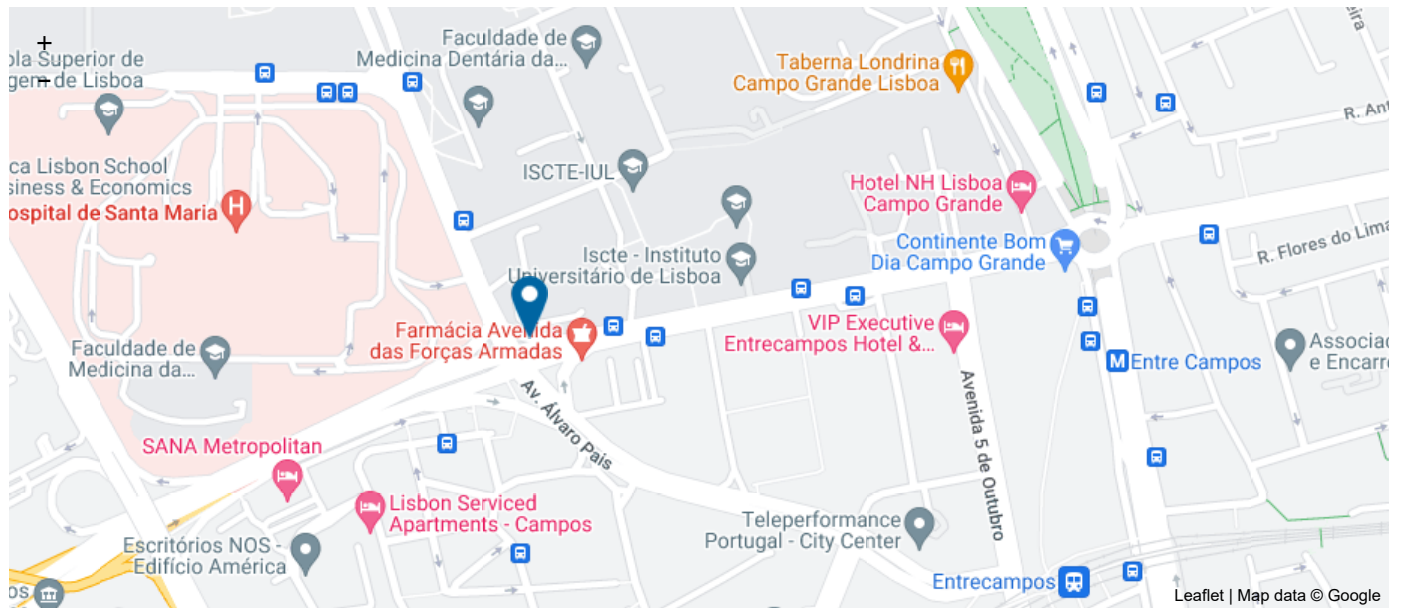
The candidate should provide a clear demonstration of the ability to carry out a research program.

Specific Requirements

Knowledge on the computer framework R3BRoot will also be favoured.

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

Map Information



WORK LOCATION(S)

1 position(s) available at
LIP - Laboratório de Instrumentação e
Física Experimental de Partículas
Portugal
LISBON
1649-003
Av. Prof. Gama Pinto, nº 2

EURAXESS offer ID: 842898

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