

14/10/2022

Bolsa de Iniciação à Investigação (BII)

Where to apply

Application Deadline: 18/11/2022 17:00 - Europe/London

Contact Details

Where to send your application.

COMPANY

LIP - Laboratório de Instrumentação e Física Experimental de Partículas

E-MAIL

bolsas@coimbra.lip.pt

Hiring/Funding Organisation/Institute

ORGANISATION/COMPANY

LIP - Laboratório de Instrumentação e Física Experimental de Partículas

DEPARTMENT

Coimbra

ORGANISATION TYPE

Research Laboratory

WEBSITE

<http://www.lip.pt>

E-MAIL

seclip@coimbra.lip.pt

COUNTRY

Portugal

CITY

Coimbra

POSTAL CODE

3004-516

STREET

Departamento de Física da Universidade de Coimbra,
Rua Larga

PHONE

+351.239.833.465

ORGANISATION/COMPANY

LIP - Laboratório de Instrumentação e Física Experimental de Partículas

RESEARCH FIELD

Physics

RESEARCHER PROFILE

First Stage Researcher (R1)

APPLICATION DEADLINE

18/11/2022 17:00 - Europe/London

LOCATION

Portugal › Coimbra

TYPE OF CONTRACT

Temporary

JOB STATUS

Full-time

HOURS PER WEEK

35

OFFER STARTING DATE

01/01/2023

REFERENCE NUMBER

EXPL/FIS-NUC/0538/2021

OFFER DESCRIPTION

LIP opens a call for selection of fellows for one Research Initiation Student Fellowship (BII) for participation in the project “Fast timing high resolution nRPC-4D detector concept for neutron science”—ref^a. EXPL/FIS-NUC/0538/2021 funded by Fundação para a Ciência e Tecnologia, I.P./MCTES through national funds (State Budget – OE).

Work plan:

The work will be performed at the Laboratory of Instrumentation and Experimental Particle Physics (LIP), in Coimbra, as part of the nRPC-4D project. The goal of this project is to develop a detector concept for thermal neutrons, which can offer high time and spatial resolutions, good detection efficiency, high counting rate and low sensitivity to gamma rays. This set of features is crucial for the instruments planned for large-scale neutron facilities, and in particular, for the European Spallation Source (ESS). The selected candidate should participate in the development and testing of a detector prototype, namely in the acquisition and data processing, aiming at its comprehensive characterization. It will be introduced to the operation of a data acquisition system (DAQ) and advanced event reconstruction techniques.

Scientific orientation: Luís Margato

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 n^o 40/2004 de 18 de Agosto, and its successive amendments).

Duration:

The fellowship has a duration of 6 months, eventually renewable, with a foreseen starting date on January 1st, 2023.

Application:

Applicants should submit a curriculum vitae, diploma and a list and grades of university courses and other relevant documents, for the evaluation to bolsas@coimbra.lip.pt

The applicants should be enrolled in a degree in Physics Engineering or Physics, or equivalent, and show basic skills needed for conducting experimental research.

Applicants should submit:

- Detailed curriculum vitae,
- Certificate of enrollment
- List and grades of university courses
- Other relevant documents for the evaluation

to bolsas@coimbra.lip.pt, referring the job offer ID in the email subject.

More Information

ADDITIONAL INFORMATION

Benefits

The monthly amount of 486,12€ is in accordance with the values stipulated in the “FCT Regulation for Research Studentships and Fellowships”:

https://www.fct.pt/apoios/bolsas/docs/Tabela_Valores_SMM_LOE_2021.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 (degree or 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 n.º. 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 fulfills the appropriate profile, the scholarship will not be awarded.

Members of the Jury:

- Effective members

Luís Margato, Andrey Morozov, Alberto Blanco

- Alternates members

Francisco Neves, Vladimir Solovov

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.

REQUIREMENTS

Offer Requirements

REQUIRED EDUCATION LEVEL

Physics: Undergraduate

Skills/Qualifications

Enrolled in a Degree or Master in Physics, Physics Engineering or equivalent
Show basic skills for conducting experimental research.

Specific Requirements

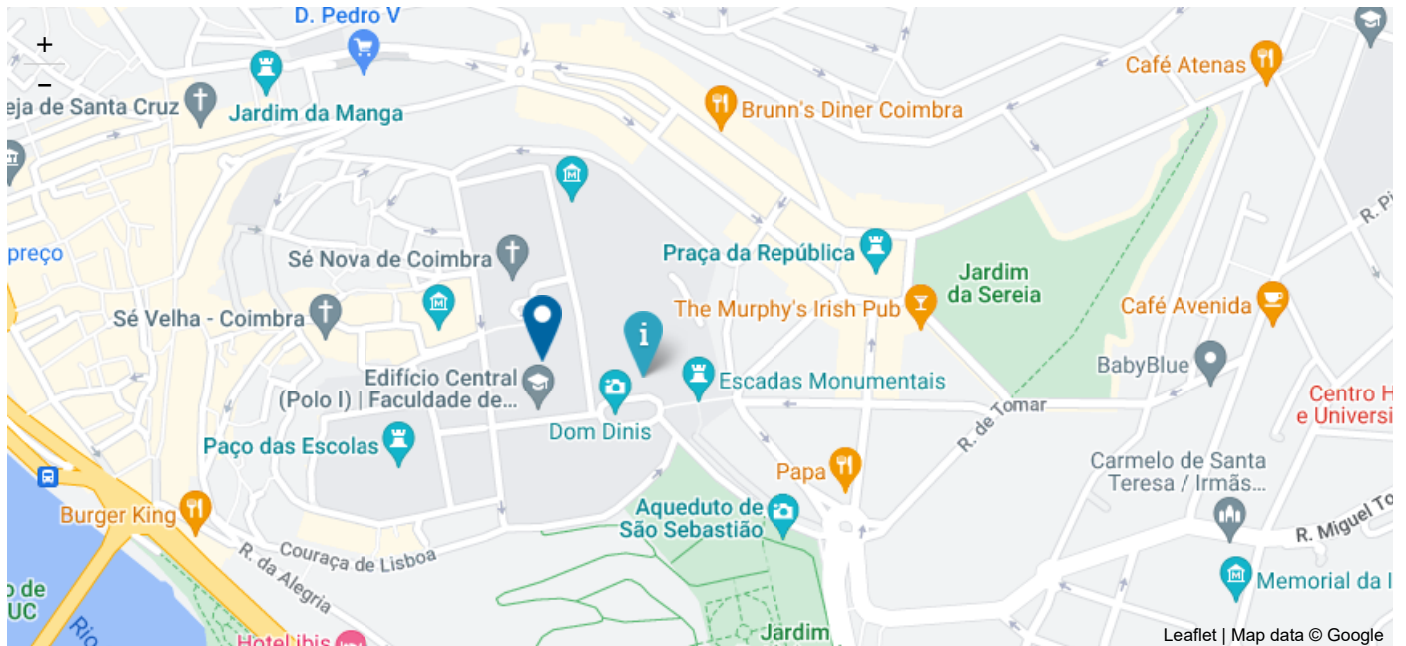
Preference criteria:

Basic knowledge of the working principles of radiation and particle detectors.

Experience in C++, Geant4, Matlab and data analysis.

Fluent in English.

Map Information



WORK LOCATION(S)

1 position(s) available at
LIP Coimbra-Portugal
Portugal
Coimbra
3000-516
Rua Larga, Depto Fisica Univ.Coimbra

EURAXESS offer ID: 849797

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