

EURAXESS

Research Student Fellowship (BI - Bachelor) - Pheno Group

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23 Jun 2023

Job Information

Organisation/Company	LIP - Laboratório de Instrumentação e Física Experimental de Partículas
Department	LISBON
Research Field	Physics
Researcher Profile	First Stage Researcher (R1)
Country	Portugal
Application Deadline	7 Jul 2023 - 05:00 (Europe/Lisbon)
Type of Contract	Temporary
Job Status	Full-time
Hours Per Week	35
Offer Starting Date	14 Jul 2023
Is the job funded through the EU Research Framework Programme?	Not funded by an EU programme
Reference Number	CERN/FIS-PAR/0032/2021 - BI (licenciado)
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 Fellowships (BI – Bachelor) for participation in the project CERN/FIS-PAR/0032/2021, “Bridging Theory and Experiment: Collider Phenomenology (II)”, funded by FCT/MCTES with national funds through the State Budget (OE).

Work plan:

This scholarship is intended to carry out scientific research work aimed at exploring the possibilities of quantum computing in the context of simulating particle physics processes. The project will be carried out at LIP-Minho, in the context of the Simulation and Big-Data Competence Center, and at the University of Minho. The work will focus on how recent advances in Quantum Computing and Quantum Machine Learning can be used to simulate complex quantum systems, comparing the performance of these methods with classical Monte Carlo techniques. The work will be developed under the scientific supervision of Prof. Nuno Castro.

Legislation:

The fellowship contract will be established according to the “Regulations for Research Grants of the Foundation for Science and Technology” (<https://files.dre.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 duration of 6 months, with a foreseen starting date on July, 2023. The fellowship may eventually be renewed, until the maximum foreseen in the project and according to the terms of the FCT regulations.

Applicants should submit: a motivation letter and a curriculum vitae (both in English), bachelor certificate and a including the list of classifications obtained in the different curricular units, and other relevant documents, as a PDF file, by email to ofelia@lip.pt and natalia@lip.pt

Requirements

Research Field	Physics
Education Level	Bachelor Degree or equivalent

Skills/Qualifications

Candidates should have a background in particle physics, quantum computing and experience in classical and quantum machine learning. Experience in python and quantum information will be valued.

Specific Requirements

Main Research Field: Physics, Physics Engineering

Languages	ENGLISH
Level	Excellent

Research Field	Physics
Years of Research Experience	1 - 4

Additional Information

Benefits

The monthly amount of € 930,98 is in accordance with the values stipulated in the “FCT Regulation for Research Studentships and Fellowships”:

https://www.fct.pt/wp-content/uploads/2023/02/Tabela-de-Valores-SMM_2023.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 contracting, the candidates will need to present a proof of enrollment in the course, in the conditions above described.

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°. 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 fulfils the appropriate profile, the scholarship will not be awarded.

Jury Members:

- Doutora Liliana Apolinário, LIP
- Prof. Guilherme Milhano, LIP - IST
- Prof. Nuno Castro, LIP – Univ. Minho

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

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/Minho
Country	Portugal
State/Province	Braga
City	Braga
Postal Code	4710-057
Street	Campus Gualtar, CP3 3.02

Where to apply

E-mail	ofelia@lip.pt
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Contact

City	LISBON
Website	http://www.lip.pt
Street	Av. Prof. Gama Pinto, nº 2
Postal Code	1649-003
E-Mail	natalia@lip.pt