

Research Student Fellowship (BI - Bachelor) - Muography

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Apply

10/03/2023

Job Information

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|--|---|
| 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 | 24/03/2023 - 17:00 (Europe/Lisbon) |
| Type of Contract | Other |
| Job Status | Full-time |
| Hours Per Week | 35 |
| Offer Starting Date | 1/4/2023 |
| Is the job funded through the EU Research Framework Programme? | Not funded by an EU programme |
| Reference Number | reference UIDP/50007/2020 - Muography |
| 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 Funding of R&D Units (Associate Laboratory), reference UIDP/50007/2020, funded by FCT/MCTES through national funds (State Budget – OE).

Work plan:

The selected candidate will be implementing analytic and iterative algorithms for the reconstruction of 3D images in the context of muography, based on simulations of structures and different characteristics (resolution, granularity, position) of the measuring apparatus. The analysis is to be applied to the realization of 3D muographies of a building from data taken with an RPC muon telescope.

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 3 months, with a foreseen starting date on April, 2023, renewable.

Applicants should submit:

a motivation letter and a curriculum vitae, 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 natalia@lip.pt and ofelia@lip.pt

Requirements

| | |
|------------------------|-------------------------------|
| Research Field | Physics |
| Education Level | Bachelor Degree or equivalent |

Skills/Qualifications

The candidate should have a robust background on cosmic-ray physics and be fluent in English.

Specific Requirements

Knowledge on data analysis with ROOT, muography and image-reconstruction techniques.

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| Languages | ENGLISH |
|------------------|---------|

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| Level | Excellent |
|--------------|-----------|

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|-----------------------|---------|
| Research Field | Physics |
|-----------------------|---------|

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_202...

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.º 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

The members of the jury will take into consideration the CV (50%) and the required field adequation (50%). If none of the candidates fulfil the appropriate profile, the scholarships will not be awarded.

Jury Members:

- Doutora Sofia Andringa
- Doutor Raul Sarmento
- Doutor Nuno Castro

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.

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|---|---|
| Website for additional job details | https://www.lip.pt/?section=about&page=recruitment |
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Work Location(s)

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|-----------------------------------|---|
| Number of offers available | 1 |
| Company/Institute | Laboratório de Instrumentação e Física Experimental de Partículas |
| Country | Portugal |
| State/Province | Braga |
| City | Braga |
| Postal Code | 4710-057 |
| Street | Campus de Gualtar |

Where to apply

| | |
|---------------|---------------|
| E-mail | ofelia@lip.pt |
|---------------|---------------|

Contact

| | |
|--------------------|----------------------------|
| City | LISBON |
| Street | Av. Prof. Gama Pinto, nº 2 |
| Postal Code | 1649-003 |
| E-Mail | natalia@lip.pt |

