

Portugal



RESEARCH FELLOWSHIP (BI-Licenciado)

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19 Feb 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)
Country	Portugal
Application Deadline	4 Mar 2024 - 17:00 (Europe/Lisbon)
Type of Contract	Not Applicable
Job Status	Not Applicable
Offer Starting Date	18 Mar 2024
Is the job funded through the EU Research Framework Programme?	Not funded by an EU programme
Reference Number	Contract Number XDHT-202312-7475
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 Fellowship (BI-Licenciado) for participation in the project "MCA – MULTI-CHANNEL ANALYSER" (Contract Number XDHT-202312-7475) funded by VITAL TECHNOLOGY GROUP CO., LIMITED.

Work plan:

The work plan is integrated in the activities carried out by the Competence Center for Control and Monitoring of LIP in the context of the development of a Multi-Channel Analyzer (MCA) with an FPGA based digital signal processing (DSP). The successful candidate will participate in the development of the DSP processing chain in FPGA, including the design and development of the data processing algorithms to perform the digital treatment of the acquired data, evaluation of the system performance, implementation verification, and documentation of all implemented methods.

Scientific orientation: Dr. Nuno Barros

Legislation:

A fellowship contract will be established according to the Status of Scientific Research Fellow (Law nº 40/2004 de 18 de Agosto, and its successive amendments) and to the “Regulations for Research Grants of the Foundation for Science and Technology” (<https://dre.pt/application/conteudo/127238533>).

Duration:

The fellowship has a duration of 4 months, eventually renewable, with a foreseen starting date on March 20th, 2024.

Application:

Applicants should submit a curriculum vitae, diploma, certificate of enrollment and other relevant documents, for the evaluation to bolsas@coimbra.lip.pt

Requirements

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

Skills/Qualifications

The candidates for the position must have a BSc in Physics or similar areas and must be signed into a MSc program. Experience in the development of digital signal processing systems in FPGAs is mandatory. Experience in VHDL, the Xilinx family of FPGAs and the Vivado environment is highly valued. The activities will require communication with several members of the team and therefore fluency in both portuguese and english is required.

Specific Requirements

Experience in VHDL, the Xilinx family of FPGAs and the Vivado software environment, as well as experience in development of data acquisition and control systems.

Languages	PORTUGUESE
Level	Excellent
Languages	ENGLISH
Level	Good

Additional Information

Benefits

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

https://www.fct.pt/wp-content/uploads/2024/02/Tabela-de-Valores-SMM_atu...

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=1...>). The selected candidate must provide the recognition of the degree when signing the contract.

Selection process

Applicants should submit:

- cover letter
- Detailed curriculum vitae,
- Certificate of enrollment
- Other relevant documents for the evaluation

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

Evaluation:

The members of the jury will take into consideration the CV (50%) and its relevance to project needs (50%). If none of the candidates fulfills the appropriate profile, the scholarship will not be awarded.

Members of the Jury:

Effective

- Dr. Francisco Neves (LIP)
- Dr. Vladimir Solovov (LIP)
- Dr. Ricardo Gonalo (LIP/UC)

Alternates

- Dr. Valentina Lozza (LIP)
- Dr. Alexandre Lindote (LIP)

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 nondiscrimination 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-Portugal
Country	Portugal
State/Province	Coimbra
City	Coimbra
Postal Code	3004-516
Street	Rua Larga, Depto Fisica Univ.Coimbra

Where to apply

E-mail	bolsas@coimbra.lip.pt
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Contact

City	Coimbra
Website	http://www.lip.pt
Street	Rua Larga, Depto Fisica Univ.Coimbra
Postal Code	3004-516
E-Mail	seclip@coimbra.lip.pt
Phone	239833465