



EURAXESS

RESEARCH FELLOWSHIP (BI-Licenciado)

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5 Apr 2023

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	21 Apr 2023 - 17:00 (Europe/Lisbon)
Type of Contract	Temporary
Job Status	Full-time
Hours Per Week	35
Offer Starting Date	15 May 2023
Is the job funded through the EU Research Framework Programme?	Not funded by an EU programme
Reference Number	PEA THOR-SR in course of signature_BIL3
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 “THOR-SR - TGF and High-energy astrophysics Observatory for gamma-Rays on board the Space Rider” funded by the PRODEX Programme of the European Space Agency.

Work plan:

THOR-SR is a high-energy astrophysics pathfinder mission whose scientific payload is based on CdTe and Si detectors to be launched on board the Space Rider. It will address gamma-ray astrophysics, space weather and TGF monitoring, by performing spectroscopy, imaging, time variability and polarimetry. It is a large field of view instrument (up to 2π sr) provided by a 4 layers CdTe stack detector, operating in the 0.1–10 MeV energy band.

The research work to be developed in the frame of THOR mission is based on the simulation of the scientific instrument mass model and on its performances' analysis for different object types: celestial gamma-ray sources (ex: pulsars and GRBs) and Terrestrial Gamma-ray Flashes

Scientific orientation: Rui Curado da Silva

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 **12 months**, with a foreseen starting date on may 15th, 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 candidate must have a degree in Physics or Physical Engineering and must be enrolled in a course granting a higher academic degree or in a non-academic degree course as mentioned in “Regulations for Research Grants of the Foundation for Science and Technology”.

Must also have a good level of knowledge in high-energy instrumentation for high-energy astrophysics and on programming software and simulation of scientific instruments to perform spectroscopy, imaging and polarimetry in the X- and gamma-ray domain in space environment.

Requirements

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

Skills/Qualifications

Requirements:

Degree in Physics, Physics Engineering or equivalent

Preference criteria:

Programming in astrophysics' instrumentation experience.
Fluent in English.

Specific Requirements

High-energy radiation detectors (X- and gamma-rays) programming and Monte Carlo simulation.

Languages	ENGLISH
Level	Good
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.

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 nº. 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:

- 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.

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

- Rui Curado da Silva
- Sónia Anton
- Isabel Lopes

Alternates

- Ricardo Gonçalo
- Filipa Borges

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.

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

Contact

City	Coimbra
Website	http://www.lip.pt
Street	Departamento de Física da Universidade de Coimbra, Rua Larga
Postal Code	3004-516
E-Mail	seclip@coimbra.lip.pt
Phone	239833465