



EURAXESS

Research Initiation Student Fellowship (BII)

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19 May 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	2 Jun 2023 - 17:00 (Europe/Lisbon)
Type of Contract	Temporary
Job Status	Full-time
Hours Per Week	35
Offer Starting Date	15 Jun 2023
Is the job funded through the EU Research Framework Programme?	Not funded by an EU programme
Reference Number	Prodex PEA No. 4000141332
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 Initiation Student Fellowship (BII) for participation in the project “THOR-SR - TGF and High-energy astrophysics Observatory for gamma-Rays on board the Space Rider” (PEA 4000141332) 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 include calculation and definition of payload instrument requirements, as well as its operation modes and testing. These requirements should be calculated from the estimated CdTe sensors', electronics' and onboard computer's performances. The operation modes should be defined from the payload instrument orientation requirements, from orbital parameters and from the power budget and data transmission budget of the Space Rider.

Scientific orientation: Rui Curado da Silva

Legislation:

A fellowship contract will be established according to the Status of Scientific Research Fellow (Law n° 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 June 15th, 2023.

Application:

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

Requirements

Research Field Physics » Applied physics

Education Level Undergraduate

Skills/Qualifications

The applicants should be enrolled in a degree in Physics, Physics Engineering or equivalent.

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.

Preference criteria:

Programming in astrophysics' instrumentation experience.

Fluent in English.

Specific Requirements

Definition and project of space missions, in particular scientific requirements writing in the physics and space domain

Languages ENGLISH

Level Good

Additional Information

Benefits

The monthly amount of 541,12€, 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 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:

- 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
- Filipa Borges
- Isabel Lopes

Alternates

- Ricardo Gonalo
- Patrícia Gonalves

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

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

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Phone 239833465