

## EURAXESS

# Physical Engineering TECHNICIAN

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28 Sep 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	13 Oct 2023 - 17:00 (Europe/Lisbon)
Type of Contract	Temporary
Job Status	Full-time
Hours Per Week	35
Offer Starting Date	1 Nov 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

The Laboratory of instrumentation and Experimental Particle Physics (LIP) is opening a selection tender for one vacancy of a Technician contract to perform support to research activities in the scientific area of Experimental Particle Physics in the framework of 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.

The candidate will be hired under a fixed term work contract, pursuant to the dispositions of article 2º g) of the Law no. 7/2009 of 12th February (Labour Code), under its current reading.

The applicant should have a Degree in Physical Engineering or related field.

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  $2\pi$  sr) provided by a 4 layers CdTe stack detector, operating in the 0.1–10 MeV energy band.

The work to be performed by the technician in the frame of THOR mission include the following tasks: i) design and build the experimental setup for testing of a Power Distribution Unit (PDU) to feed the scientific instrument and the onboard computer subsystems; ii) performed these tests together with the team developing the PDU; iii) design and build the experimental setup for testing two prototypes of the scientific instrument based on CdTe; iv) perform these tests and analysis of the obtain data.

Work supervision: Rui Curado da Silva

Applicable Legislation

- Labour Code approved by Law no. 7/2009 of 12th February, under its current reading

Duration:

The contract has a duration of 9 months, with a foreseen starting date on November the 1st, 2023.

The tender selection panel shall be formed by:

Effective:

- Rui Curado da Silva (LIP)
- Ricardo Gonalo (UC e LIP)
- Patricia Gonalves (IST e LIP)

Alternates:

- Jorge Maia (UBI e LIP)
- Isabel Lopes (UC e LIP)

Application formalization shall be made by sending:

- a) Motivation letter
- b) Detailed Curriculum Vitae
- c) Certificate or diploma copy. Recognition of foreign diploma should also be delivered, if applicable;
- d) Other documentation relevant for the evaluation of qualifications in a related scientific area.

Candidates shall submit their application files and supporting documentation, in a digital form, in PDF format, via email to [bolsas@coimbra.lip.pt](mailto:bolsas@coimbra.lip.pt).

All candidates who formalize their applications in an improper way or fail to prove the requirements imposed by this tender are excluded from admission. In case of doubt, the panel is entitled to request any candidate to present further documentation supporting his/her statements.

False statements provided by the candidates shall be punished by law.

Both admitted and excluded candidate list and final classification list shall be sent by email to all candidates with delivery receipt.

Preliminary Hearing and Final Decision Deadline: Pursuant to article 121 of the Administrative Procedure Code, after notified, all candidates have 10 working days to respond. Panel’s final decisions are pronounced within a period of 90 days, from application deadline.

This tender is exclusively destined to fill the vacancy and can be terminated at any time until approval of final candidate list, expiring with the respective occupation of said vacancy.

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.

The panel has approved this announcement in meeting held on 22nd September 2023.

Pursuant to article 3 (3) of Decree-Law no. 29/2001 of 3 February, disabled candidates shall be preferred in a situation of equal classification, and said preference supersedes any legal preferences. Candidates must declare, on their honour, their respective disability degree, type of disability and communication/expression means to be used during selection period on their application form, under the regulations above.

## Requirements

**Research Field** Physics » Applied physics

**Education Level** Bachelor Degree or equivalent

### Skills/Qualifications

The applicant should have a Degree in Physics, Physical Engineering or related field

Preference criteria:

Nuclear electronics experience and operation with radiation detectors.

Fluent in English.

### Specific Requirements

The candidate must have experience in development of electronics for radiation detectors..

**Languages** ENGLISH

**Level** Good

## Additional Information

### Benefits

Monthly remuneration to be paid is the one corresponding to level 24 of the Single Salary Table, i.e. 1.754,41 Euros.

### Eligibility criteria

Any national, foreign or stateless candidates who hold a Degree in Physical Engineering or related scientific area and a professional curriculum whose profile is suited for the activity to be performed can submit their applications.

In the event the degree was awarded by a foreign higher education institution, the degree must comply with the provisions of Decree-Law no. 341/2007 of 12th October.

### Selection process

Application **formalization** shall be made by sending:

- a) Motivation letter
- b) Detailed Curriculum Vitae
- c) Certificate or diploma copy. Recognition of foreign diploma should also be delivered, if applicable;
- d) Other documentation relevant for the evaluation of qualifications in a related scientific area.

**How to Apply** : email

Application **Email**: [bolsas@coimbra.lip.pt](mailto:bolsas@coimbra.lip.pt)

### 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 contract will not be awarded.

The tender selection **panel** shall be formed by:

Effective:

- Rui Curado da Silva (LIP)
- Ricardo Gonalo (UC e LIP)
- Patr cia Gonalves (IST e LIP)

Alternates:

- Jorge Maia (UBI e LIP)
- Isabel Lopes (UC e LIP)

Selection is to be made based on the evaluation of the curricular career of the candidates whose application is considered admissible.

After selection criteria application, the panel shall prepare an ordered list of the approved candidates with corresponding classifications. The panel's final decision shall be validated by the head of the institution, who is also responsible for the hiring.

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](mailto:bolsas@coimbra.lip.pt)

## Contact

City	Coimbra
Website	<a href="http://www.lip.pt">http://www.lip.pt</a>
Street	Departamento de F�sica da Universidade de Coimbra, Rua Larga
Postal Code	3004-516
E-Mail	<a href="mailto:seclip@coimbra.lip.pt">seclip@coimbra.lip.pt</a>
Phone	239833465