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ASSITANT SCIENTIFIC TECHNICIAN

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18 Jun 2023

Job Information

Organisation/Company	LIP - Laboratório de Instrumentação e Física Experimental de Partículas
Department	LISBON
Research Field	Physics
Researcher Profile	Recognised Researcher (R2)
Country	Portugal
Application Deadline	30 Jun 2023 - 05:00 (Europe/Lisbon)
Type of Contract	Temporary
Job Status	Full-time
Hours Per Week	35
Offer Starting Date	3 Jul 2023
Is the job funded through the EU Research Framework Programme?	Not funded by an EU programme
Reference Number	LOMAC Group - Scientific Technician
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 for an **Assistant Scientific Technician** to aid research in the scientific subject of Experimental Particle Physics.

The candidate will be hired under a **non-fixed term work contract (foreseen duration of 18 months)**, pursuant to the Labour Code, approved by law no.7/2009 of 12th February, under its current reading.

The recruited candidate will integrate a multidisciplinary and diverse research team in a collegial and collaborative environment.

The candidate should have an educational background in Experimental Particle Physics or similar.

The candidate should have previous experience working with plastic scintillating optical fibres and wavelength-shifting (WLS) optical fibres for light production and collection in particle physics experiments, and should have knowledge of the mechanisms of propagation and absorption of the light in this type of optical fibres. The candidate should have experience in the deposition of aluminium mirror in plastic optical fibres using the magnetron sputtering technique. The candidate should have experience in the usage of photodetectors like photomultiplier tubes and SiPMs.

Knowledge of LabView, C++ and Root is required.

The candidate must be fluent in English and Portuguese and be able to use both in a professional setting (equivalent to level C2).

The chosen candidate will perform the following tasks:

a) Mirror aluminization of Scintillating and WLS optical fibres of different lengths, with typical diameters of the order of 1 mm.

b) Control quality of non-aluminized and aluminized optical plastic scintillating and WLS fibres of different lengths.

c) Development or upgrade of setups for the quality control of plastic optical fibres, with lengths from a few cm to several meters.

d) Assist in the development of new scintillators and/or the respective light collection and integration in future Particle Physics experiments.

e) Assist in the production and integration of components needed for detectors based on light collection produced by scintillation or Cerenkov.

Candidates can apply by sending the following documentation, in English:

a) Motivation letter

b) Curriculum Vitae detailing the skills and qualifications described in this advertisement

c) Contacts of 2 references

d) Other documents the candidate considers relevant for their application

Applications should be sent as pdf files to the email address natalia@lip.pt.

Requirements

Research Field	Physics
Education Level	PhD or equivalent

Skills/Qualifications

The candidate should have previous experience in research projects in the subject areas of scintillator based particle detectors. It is required the knowledge of scintillation and light propagation mechanisms in plastic scintillating and WLS optical fibres, and experience in the deposition of aluminium mirror in plastic optical fibres using the magnetron sputtering technique. The candidate should have experience in the usage of photodetectors like photomultiplier tubes and SiPMs and associated electronics. A PhD degree in the area of experimental particle physics is required since the candidate will participate in the development of active components based on light scintillation for future particle physics detectors, and should be able to ensure the respective integration in a global detector of high complexity.

Specific Requirements

PhD candidates with experience in research in the field of detectors based on scintillators and optical fibres.

Languages	ENGLISH
Level	Excellent
Languages	PORTUGUESE
Level	Excellent
Research Field	Physics
Years of Research Experience	More than 10

Additional Information

Benefits

The monthly remuneration will be fixed according to the level of experience demonstrated (integration in the LIP Scientific-Technical Career).

Eligibility criteria

Any national, foreign, or stateless candidates who hold an academic or professional curriculum whose profile is suited for the activity to be performed can submit their applications. Applicants from countries outside the EU, EEA, or that do not have a freedom of movement agreement with the EU must hold a valid residence permit or a long-term resident status, under the terms of Law No. 23/2007 of 4 July, under its current reading.

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.

Selection process

The tender selection panel shall be formed by:

- Prof. Mário Pimenta (LIP and IST),
- Profª. Patricia Gonçalves (LIP and IST),
- Doutor Agostinho Gomes (LIP and FCUL)

Evaluation criteria are the following:

Evaluation of the CV of the candidates, namely their educational background and past experience.

Each member of the panel will value the criteria for each candidate, taking into account the requirements of the duties to be performed, the adequacy of previous experience, his/her relationship to the relevant areas and sub-areas.

The selection will consider the applicant's Curriculum Vitae (60%) and their motivation letter (40%).

High-ranking candidates might be called for an interview, and the final decision will be based on the interview score alone.

After applying the selection criteria, the panel will prepare an ordered list of the approved candidates and their corresponding classification. In case none of the candidates can demonstrate suitable skills or background, the panel will not select any candidate.

The panel's final decision shall be validated by the head of the institution, who is also responsible for the hiring.

Both the admitted and excluded candidate list and the 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, all candidates have 10 working days to respond upon notification. Panel's final decisions are pronounced within a period of 90 days from the application deadline.

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

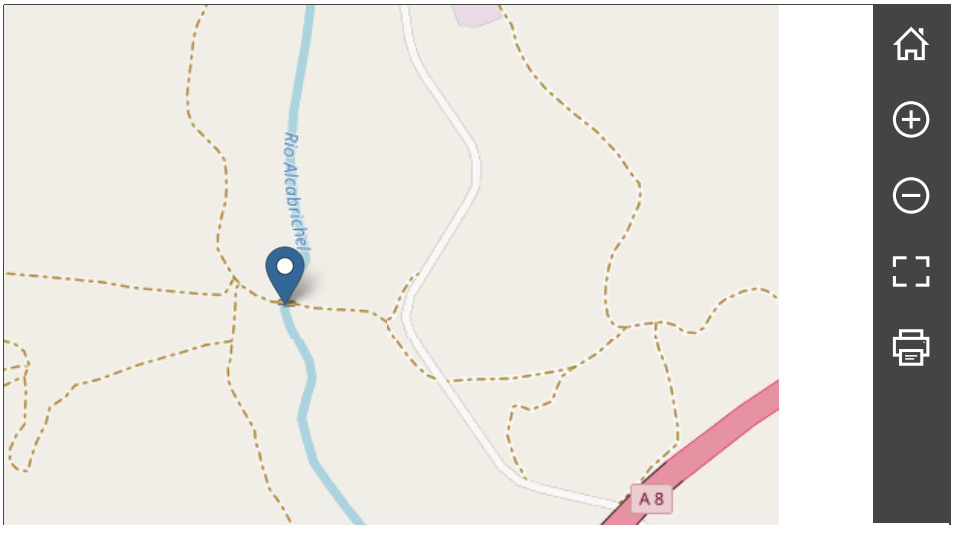
Additional comments

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.

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.

Website for additional job details	https://www.lip.pt/?section=about&page=recruitment

Work Location(s)

Number of offers available	1
Company/Institute	LIP
Country	Portugal
State/Province	Lisbon
City	Lisbon
Postal Code	1649-003
Geofield	

Where to apply

E-mail	natalia@lip.pt

Contact

City	LISBON
Website	http://www.lip.pt
Street	Av. Prof. Gama Pinto, nº 2
Postal Code	1649-003
E-Mail	natalia@lip.pt