

04/10/2022

# Call for Applications for a Doctoral Scholarship - NUC-RIA Group at LIP

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Where to apply

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Application Deadline: 21/10/2022 17:00 - Europe/London

Contact Details

**Where to send your application.**

**COMPANY**

LIP - Laboratório de Instrumentação e Física Experimental de Partículas

**E-MAIL**

natalia@lip.pt

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Hiring/Funding Organisation/Institute

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**ORGANISATION/COMPANY**

LIP - Laboratório de Instrumentação e Física Experimental de Portugal  
Partículas

**DEPARTMENT**

LISBON

**ORGANISATION TYPE**

Research Laboratory

**WEBSITE**

<http://www.lip.pt>

**E-MAIL**

natalia@lip.pt

**COUNTRY**

**CITY**

LISBON

**POSTAL CODE**

1649-003

**STREET**

Av. Prof. Gama Pinto, nº 2

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**ORGANISATION/COMPANY**

LIP - Laboratório de Instrumentação e Física Experimental de Partículas

**RESEARCH FIELD**

Physics

**RESEARCHER PROFILE**

**LOCATION**

Portugal › LISBON

**TYPE OF CONTRACT**

Other

**JOB STATUS**

First Stage Researcher (R1)

Full-time

**APPLICATION DEADLINE**

21/10/2022 17:00 - Europe/London

**HOURS PER WEEK**

35

**OFFER STARTING DATE**

01/11/2022

**REFERENCE NUMBER**

Financiamento de Unidades de Investigação -  
LIP/50007 - NUC-RIA Group

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## OFFER DESCRIPTION

LIP opens a call for applications for a Doctoral Scholarship in the domain of experimental nuclear physics and applications.

The grant will be funded by the Foundation for Science and Technology (FCT) under the Collaboration Agreement "Financiamento do Plano Plurianual de Bolsas de Investigação para Estudantes de Doutoramento", signed between the FCT and LIP, R&D Unity No. 50007.

PhD studentships will be granted to applicants that fulfil the requirements to join a study cycle towards a PhD degree, and wish to develop research work in particle physics or related domains at a Portuguese University, hosted by LIP, without prejudice to the work being carried out in collaboration with more than one institution. The research activities must be integrated in LIP's activity plan and strategy.

**Working Program and Supervision:**

This fellowship will be developed in the framework of the LIP group NUC-RIA (Nuclear Reactions, Instrumentation and Astrophysics) that participates at the ISOLDE facility at CERN.

The selected candidate will work on the analysis of the data obtained in the recently executed experiment IS698 "α-scattering on unstable proton-rich tin isotopes in inverse kinematics for the astrophysical p-process" at the ISOLDE facility at CERN. The candidate will work on all stages necessary to perform a complete analysis of the measured data, from calibration (position, energy) of the detection systems used in the experiment, towards the extraction of the measured cross sections.

Once that phase is concluded, comparison to predictions using global model parameterizations will be performed, and specific nuclear quantities will be extracted from the obtained results. Finally the impact on astrophysical nuclear reaction network calculations, and the presentation of the obtained results in international conferences is also foreseen.

The PhD candidate will receive a complete education in experimental nuclear science at one of the world-reference facilities in the production and study of radioactive nuclei like the one located at CERN. Experiment IS698 is the first of what we expect to be a series of experiments at ISOLDE. The candidate will as such strongly involved in the preparation of future experimental proposals.

The scientific orientation of the candidate will be ensured by Prof. Daniel Galaviz and by the co-supervisors Prof. Ángel Sánchez Benítez (Univ. De Huelva, Espanha) and Prof. Francisco Javier Ferrer (Univ. De Sevilha, Espanha).

**Admissibility Requirements:**

Under the conditions set out in Article 9 and Paragraph 1 of Article 14 of FCT Regulations for Studentships and Fellowships, are eligible as applicants:

Portuguese citizens, or citizens of other European Union member states;

third-country citizens;

stateless persons;

beneficiaries of refugee status.

To apply for a PhD studentship it is necessary:

To hold a bachelor's or master's degree in the scientific areas defined in the call announcement or in related areas;

Not to have benefited from a PhD or a PhD in industry studentship directly funded by FCT, regardless of its duration;

To be a citizen permanently and usually living in Portugal, in case the work plan of the requested studentship proceeds, entirely or partially, in foreign institutions (in case of both in Portugal and abroad or exclusively abroad studentships); this requirement is applicable to both national and foreign citizens;

Not to hold a doctoral degree.

**Duration:**

The duration of the grant is annual, renewable up to a maximum of four years and may not be awarded for periods of less than three consecutive months.

The candidates formalize their application by sending the following documents (mandatory) by email to natalia@lip.pt:

One CV file in pdf format;

One Motivation Letter file in pdf format;

One PDF file containing certificates of all the academic degrees obtained, with the final average grade and marks in all subjects

One PDF file containing the academic degree recognition and conversion of the final grade to the Portuguese grading scale or the presentation of the recognition/equivalence, registered by a public higher education institution.

Two reference letters

**Members of the Jury:**

Dra. Catarina Quintans, LIP (Panel Chair)

Prof. Jorge Sampaio, LIP and FCUL;

Prof. Patricia Gonçalves, LIP and IST;

Dr. Alberto Blanco Castro, LIP;

Prof. Luís Peralta, LIP and FCUL.

## More Information

ADDITIONAL INFORMATION

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## Benefits

The selected applicant will be awarded monthly stipends and supplementary support, which may include tuition fees, relocation costs, travel awards and health insurance, whenever applicable, as detailed in the FCT Regulations.

# Eligibility criteria

Only candidates who have completed the cycle of studies leading to a Bachelor's or Master's degree by the end of the application period will be admitted. In order to comply with the foreseen applicable Portuguese legislation regarding the recognition of foreign qualifications, all the rights inherent to academic degrees granted by foreign higher education institutions is duly recognised to the holders of these degrees. This recognition is subject to the presentation of the academic degrees recognition and conversion of the final grade to the Portuguese grading scale, requested to the Dean of a public Portuguese University, the Head of a Public Polytechnic Institute or the Director-General for Higher Education; or by the presentation of the recognition/equivalence, registered by a public higher education institution.

Candidates who do not yet have their degree certificate may present a declaration of honor, stating that they have completed the necessary qualifications for the purposes of the call by the end of the application deadline. The granting of the scholarship will depend on the presentation of all the documents. For candidates with diplomas issued by foreign institutions the academic degrees recognition and conversion of the final grade to the Portuguese grading scale or the presentation of the recognition/equivalence will be required for the granting of the scholarship.

## Selection process

Evaluation takes into account two criteria:

### **Criterion A - Merit of the Applicant**

The criterion A, which has a 50% relative weight to the final score, is evaluated based on two sub-criteria:

**A1. Academic career**, with a relative weight of 20% in the Merit of the Applicant.

The academic career sub-criterion is calculated according to the final classification stated in the academic degree certificate, submitted in the application form, according to Table 1: i) Graduate + Master / Integrated Master; ii) Graduate degree only; or iii) Master degree only. (Table 1 available in the PT version of the call)

Although it is not mandatory to submit degree certificates for the admission to the call, documental evidence of the classifications obtained in the academic degrees is mandatory for the evaluation of the sub-criterion A1.

In case no valid academic degree certificate is submitted, the sub-criterion A1 will be scored zero ( $A1 = 0$ ).

**A2. Personal curriculum** (reflecting the scientific, professional and academic career, when applicable, and the applicant's motivation to proceed with this study cycle) with a relative weight of 30% in the Merit of the Applicant.

**Criterion B – Adequacy of the candidate's experience to the working program** with a relative weight of 50%

## Additional comments

### **Disclosure of results :**

The results of the evaluation will be communicated to the applicants by email, and the conclusion of the process will be published on the LIP website. In case of a negative decision, applicants dispose of a period of 10 days in which to oppose the decision in a preliminary hearing, as stated in articles 121 and following of the Code of Administrative Procedure. The panel's final decision will be taken after analysis of the applicant's arguments and the candidates notified. In case of disagreement, the candidates have a period of 15 working days to contest the decision. A final appeal may also be lodged with the highest body of the funding entity (FCT) within a period of 30 working days after the announcement of the jury's final classification.

### **Funding:**

The scholarship contracts will be signed with FCT. The attribution of grants is conditional on the presentation of all required documentation and on the admission of the candidate by the Institution granting the academic degree, as well as subject to the availability of FCT funds. The lack of any of the necessary documents to complete the contracting procedure implies the expiration of the studentship granting and conclusion of the process; applicants have up to 6 months after the disclosure of the provisional granting to present all of the listed documents.

### **Equality and non-discrimination Policy:**

We are committed to promoting equality and preventing discrimination, and welcome applications of all qualified candidates irrespective of their age, disability, gender, marital status, pregnancy, maternity, gender identity, race, colour, nationality, ethnicity or national origin, sexual orientation, religion or belief, social background or culture or trade union membership.

## Web site for additional job details

<https://www.lip.pt/?section=about&page=recruitment>

REQUIREMENTS

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## Required Research Experiences

### **RESEARCH FIELD**

Physics

### **YEARS OF RESEARCH EXPERIENCE**

1 - 4

## Offer Requirements

### **REQUIRED EDUCATION LEVEL**

Physics: Master Degree or equivalent

### **REQUIRED LANGUAGES**

ENGLISH: Excellent

## Skills/Qualifications

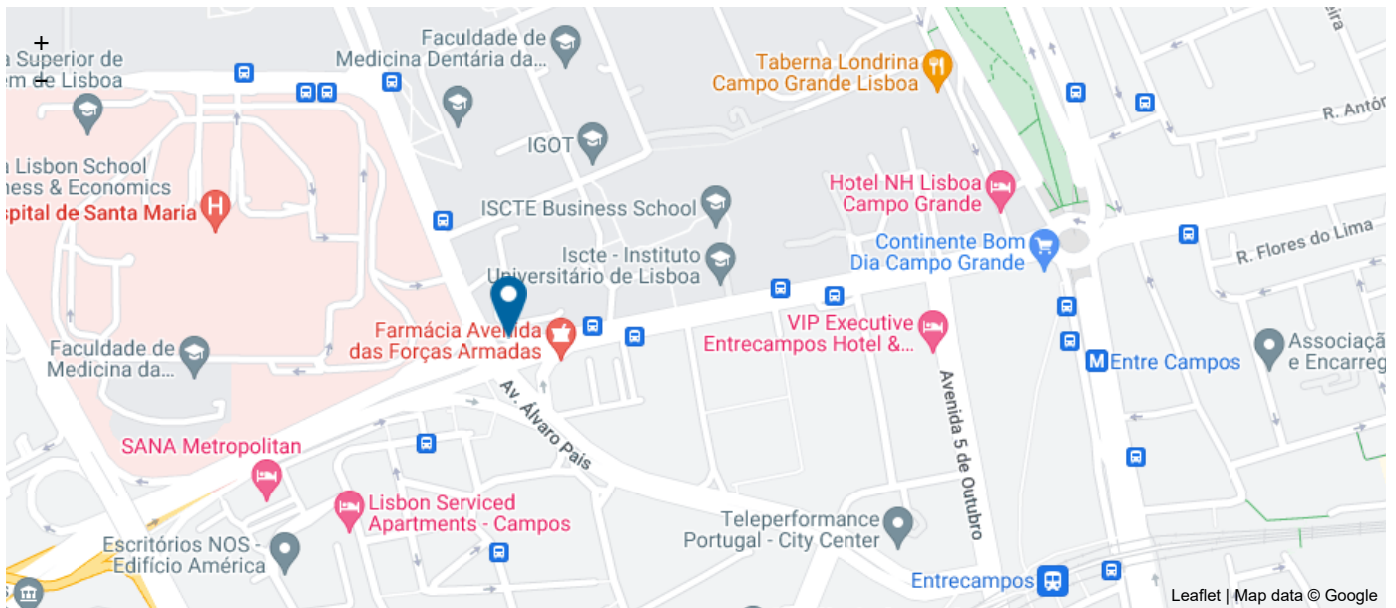
Physics or related areas

Only candidates who have completed the cycle of studies leading to a Bachelor's or Master's degree by the end of the application period will be admitted.

## Specific Requirements

Programming skills (C++, Python) knowledge of nuclear analysis tools (ROOT, SimNRA). Experience in the execution of nuclear physics experiments will be valued.

# Map Information



## WORK LOCATION(S)

1 position(s) available at  
LIP - Laboratório de Instrumentação e  
Física Experimental de Partículas  
Portugal  
LISBON  
1649-003  
Av. Prof. Gama Pinto, nº 2

EURAXESS offer ID: 844546

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