



LABORATÓRIO DE INSTRUMENTAÇÃO E FÍSICA EXPERIMENTAL DE PARTÍCULAS

LIP is selecting candidates for one Research Student Fellowship for participation in the projects “Collaboration in the operation and physics data analysis at the CMS experiment at CERN” Ref. CERN/FIS-PAR/0025/2019, and “Collaboration in the HL-LHC Upgrade of the CMS experiment at CERN”, Ref. CERN/FIS-INS/0032/2019, funded by FCT/MCTES with national funds through the State Budget (OE).

**Application Procedure:**

In order to qualify for the selection and funding from FCT, the successful candidates are required to have a Master degree in Physics and to engage in a PhD program at IST, University of Lisbon.

**Requirements:**

The candidates must be enrolled in a course granting a higher academic degree or in a non-academic degree course and should have or be about to obtain a Master in Physics. They also should provide a clear demonstration of the ability to carry out a research program.

**Work Plan:**

Participation in the data analysis of the full dataset available with the goal of fully exploiting the discovery opportunities offered by the LHC in the search for New Physics and participation in the Upgrade of the CMS experiment in the High-Luminosity phase of the LHC (HL-LHC).

The successful candidate will participate in the data analysis and detector upgrade activities in Lisbon with occasional trips to CERN. The activities will be carried in the frame of the activities of one of the outstanding research groups in High-Energy Physics in Portugal. Citing the Report of the recent Institutional Evaluation performed by an international review panel nominated by FCT: “The LIP-CMS group, while small in size, is really outstanding and world-class. A member of LIP was deputy spokesperson of the CMS collaboration at the time of the Higgs discovery, and has supplied physics working group co-conveners of the CMS Higgs Physics analysis, the Top Quark Physics analysis and the CMS B and Quarkonium Physics group. This is a remarkable achievement for such a small group, to be leading three of the most important physics analysis groups.”

**Applicable Legislation:** A fellowship contract will be celebrated according to the “Regulations for Research Grants of the Foundation for Science and Technology” in force, (<https://dre.pt/application/conteudo/127238533>) and to the Status of Scientific Research Fellow (Law n.º 40/2004 of 18 of August, and its successive amendments). In the event of the PhD 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=1536>). The selected candidate must provide the recognition of the degree when signing the contract.



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**Duration:** 12 months, starting in September 2020, eventually renewable following FCT regulations and the duration of the project.

**Amount of the fellowship:** The amount will follow the reference table for FCT fellowships in Portugal, 1064,00 Euros. <https://www.fct.pt/apoios/bolsas/valores.phtml.pt>. This amount will be paid on a monthly basis through a bank transfer to the grant holder's bank account.

**Place of work:** Research activities will be developed at the LIP-Lisbon facilities and at CERN, under scientific supervision of Dr. Michele Gallinaro.

**Evaluation criteria are the following:** The selection will consider the applicant's Curriculum Vitae (50%), and its relevance to project needs (50%).

**Evaluation Panel:** Prof. João Varela, Dr. Michele Gallinaro and Dr. Nuno Leonardo

**Advertising / notification of results:** The results of the first step of the evaluation will be communicated through a list sorting the candidates according to their attributed mark, by e-mail; 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, which 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.

**Documents:** Applications must be formalized by an application letter attaching the following documents: Curriculum Vitae, two reference letters and academic certificate including the marks in all the courses at the University.

**Period of application:** The application should be submitted in pdf format from July 31 to August 14, 2020 by e-mail to [natalia@lip.pt](mailto:natalia@lip.pt)