Postdoctoral Position ERC-COG-RECEPT in the LHCb experiment @ LPNHE Paris

May 7th, 2020

The LHCb group of the Laboratoire de Physique Nucléaire et des Hautes Energies (LPNHE) in Paris (France): https://lpnhe.in2p3.fr/ invites applications for a Postdoctoral Researcher position funded by the ERC-COG project RECEPT (GA 724777) to work on the LHCb experiment.

The LHCb experiment at CERN is collecting data from the proton-proton collisions delivered by the Large Hadron Collider. The LPNHE LHCb group consists of seven permanent staff, three PhD students, and two postdocs, and is currently involved in two main domains of data analysis, the study of charmless three body $B$ decays and rare decays. We also participate enthusiastically in detector development, and are heavily involved in the upgrade of LHCb’s real-time analysis (trigger) system and the construction and commissioning of the new Scintillating Fibre tracker for the LHCb upgrade. In addition, we have proposed a new detector, CODEX-b, to augment LHCb’s sensitivity to long-lived particles beyond the Standard Model (SM), and are leading the construction of a prototype called CODEX-$\beta$, to be installed in 2022/2023.

The successful candidate is expected to both play a leading role in testing lepton universality, and to make a significant contribution to LHCb’s Run 3 real-time analysis system. In particular the LPNHE group has led the development of a GPU based first level trigger which has recently been adopted as the Run 3 baseline by LHCb, and you will be expected to make a major contribution to delivering and commissioning this system with the first data of Run 3. You will have the opportunity to co-supervise a PhD student doing their thesis on a closely related topic. To qualify you should have, or be about to obtain, a PhD in Particle Physics. Previous experience within the LHCb experiment is not mandatory. You should have strong technical skills and enjoy solving computing as well as physics problems.

Applications will be accepted until May 31st 2020. The appointment is initially for two years, with a possible extension for a further year subject to funding. Our preferred starting date is “as soon as possible”, but will anyhow need to be discussed given how the COVID situation develops and your personal circumstances. You will have access to a dedicated travel budget and can be based at CERN if desired. The salary will depend on your previous working experience.

No nationality restrictions apply to this position. LPNHE is an equal opportunity employer, and members of marginalised groups are particularly encouraged to apply.

For further information contact Vava Gligorov (vgligor@lpnhe.in2p3.fr). You must apply through the CNRS application portal using the following link to access this job offer


When applying please submit a two-page curriculum vitae, a one-page statement explaining your interest in the position, and arrange for three letters of recommendation.