

Subject: Opening of a postdoctoral position ALICE @ IP2I de Lyon

Contract period: 24 months

Starting date: September 1, 2021, or at the latest December 1, 2021

Detailed description:

The ALICE team at the IP2I of Lyon (www.ip2i.in2p3.fr) is opening a postdoc position for a junior physicist (maximum 2-year experience after the PhD) in the field of experimental hadronic physics, focused on the preparation of Run 3 data taking, and the analysis of the very first data collected during Run 3 with ALICE.

ALICE (A Large Ion Collider Experiment) is a general purpose, heavy-ion collision detector installed at the CERN LHC. It is designed to study the physics of strongly interacting matter, namely the properties of Quark-Gluon Plasma (QGP), using proton-proton, nucleus-nucleus and proton-nucleus collisions at ultra-relativistic energies. The ALICE detector is now being upgraded during the Long Shutdown 2 (LS2) in order to exploit the full scientific potential of the LHC in Run 3 and Run 4.

The host team at IP2I-Lyon, composed of three full time researchers and PhD students, has been highly involved the ten last years in designing and building the Muon Forward Tracker (MFT) which is part of the ALICE LS2 upgrade. The postdoctoral researcher is expected to play a leading role in analyses of the first Run 3 data, especially in quarkonium and beauty production studies at forward rapidity using the upgraded muon spectrometer, including preparation and optimization of the reconstruction and analysis software.

Applicants should have their PhD in high-energy experimental physics at the time of the starting date, have experience and expertise in data analysis using object-oriented programming and may already have a postdoctoral experience (not more than 2 years after the PhD). A good experience of the AliceO2 software framework would be an advantage. The candidates should demonstrate the ability to work in an international research environment, including good English proficiency.

Applications should include a description of previous research experience (PhD work and postdoctoral work, where appropriate), an academic curriculum vitæ including the most relevant publications, analysis notes, talks given in international conferences and workshops, and letters of recommendation.

Applicants should apply through the following official CNRS web-site:

<https://emploi.cnrs.fr/Offres/CDD/UMR5822-MARVER-007/Default.aspx?lang=EN>