

Postdoctoral Research Position

The nucleon structure group at the Institut de Physique Nucléaire d'Orsay (IPNO) in Paris-Saclay University invites for applications for a postdoctoral research position. The group's research interests are focused around the study of the quark and gluon structure of the nucleon and nuclei at the Jefferson Laboratory (USA). Recently an important program of research has been developed around a low energy recoil tracker (ALERT) that has been approved to run with the CLAS12 detectors to carry out experiments to study the EMC effect and nuclear generalized parton distributions (GPDs). The ALERT detector is composed of a stereo drift-chamber coupled with arrays of scintillators and is in its design phase.

We are looking for skilled candidates to join the ALERT project and take a leading role in the development of the detector. The postdoctoral associate will contribute in all aspects of the development of the detector, from prototyping to running the detector in the experiment as well as GEANT4 simulation and preparation for future data analysis. This work will involve numerous interactions with the scientists, engineer and students of the project both locally and internationally. Finally the successful candidate will be encouraged to directly participate in some of the physics analysis projected for the detector and/or to develop new experimental proposal.

The candidate must have a PhD in Nuclear Physics, High Energy Physics or a related discipline. Experience with nuclear physics instrumentation, particle detectors, as well as experience with programming and physics analysis are highly desirable. A demonstrated ability to perform research independently and as part of a research group is also important. The initial appointment is for two years with possible extension by one year and can start as soon as the first of November. Gross salary goes from 2605 to 3615€ per month depending on prior experience.

Please provide the following required materials along with your application:

- Cover letter
- Curriculum vitae
- Two letters of recommendation

The application material is to be submitted through the following portal Portail Emploi CNRS:

<https://emploi.cnrs.fr/>

Letters of recommendations and inquiries related to this position, can be directed directly to Dr. Raphaël Dupré (dupre@ipno.in2p3.fr)