



## Postdoctoral Research Associate on ALICE experiment

**Job Description:** The Laboratory of Subatomic Physics and Cosmology (LPSC) of Grenoble (France) has an immediate opening for a postdoctoral position in the field of High-Energy Nuclear Physics with the ALICE experiment at the CERN Large Hadron Collider.

We are looking for a highly motivated and skilled postdoctoral researcher who is expected to take leading roles in measurements of jet quenching with the ALICE experiment, including novel uses of machine learning in physics analysis and detector reconstruction, and contribute to detector operation during LHC Run 3.

The successful candidate would be joining the LPSC ALICE group currently comprised of 4 research scientists and 3 graduate students. The group is actively pursuing measurements of inclusive, photon-tagged and heavy flavor jets. Close collaboration between theorists and experimentalists is also actively encouraged within our group.

The position will be based in Grenoble but will require regular travel to CERN (only 140 km from Grenoble). Other French and foreign travel is likely to be required.

**Terms of employment:** The successful candidate will be appointed for two years with flexible starting date but no later than November 2022. The salary, depending on relevant experience before the beginning of the employment contract, will be €2,690 to €3,821 gross per month.

### Essential Duties and Responsibilities:

- Participation in the ALICE scientific program with a strong focus on heavy-flavour, photon and jet physics;
- Assist with the supervision of Master and PhD students working in the same project.

**Qualifications:** We seek candidates with strong experimental skills including data analysis of large volume data sets, event reconstruction techniques, and simulation. Expertise in software systems used in high-energy physics as well as Unix operating systems, C++ programming language and Python are required. In addition, experience or willingness to learn about Machine Learning techniques is a plus for this position.

Good communication and writing skills in English, the ability to work both independently and collaboratively in an international team environment, are required.

Applicants should have a PhD or be near completion of a PhD in experimental high-energy physics or in a closely related field with relevant experience.

**Application Instructions:** Applicants should submit a curriculum vitae, a summary of research interests, and arrange to have three letters of recommendation (to be submitted by the reference writers). Documents should be sent to R. Guernane at [guernane@lpsc.in2p3.fr](mailto:guernane@lpsc.in2p3.fr).

While all applications received by March 31, 2022, will receive full consideration, applications will be accepted until the position is filled. For more information, contact R. Guernane at the addresses given above.

**About the laboratory:** The LPSC Grenoble (<http://lpsc.in2p3.fr>) is a joint research unit having roughly 230 staff members, it is driven by the University of Grenoble Alps (UGA), CNRS/IN2P3 and the engineering and management school of Grenoble INP. Located in the heart of the French Alps, UGA is renowned for its scientific and technological research activities, aimed at providing essential training to students and faculty and at addressing societal issues (<https://www.univ-grenoble-alpes.fr/about/ambition-and-strategy>).