

## **PhD position in experimental particle physics with the ATLAS experiment**

### **Job description:**

The IFIC-Valencia group invites applications for a PhD position in experimental particle physics in the ATLAS experiment. IFIC (Instituto de Física Corpuscular) is a joint center of the Spanish National Research Council (CSIC) and the University of Valencia (UV), dedicated to research in Particle, Astroparticle, and Nuclear Physics and their applications, covering both theoretical and experimental aspects. More information about IFIC can be found at: <http://ific.uv.es>.

The group has longstanding expertise within the ATLAS Collaboration, among other areas contributing to the construction and operation of the hadronic Tile Calorimeter (TileCal), to Trigger and Data Acquisition (TDAQ) activities and to several data analyses exploring Higgs boson physics.

We offer a PhD position for up to 4 years to join the IFIC-Valencia group in the development of advanced data processing and detector technologies. The successful candidate will become a member of the ATLAS Collaboration, and will have the opportunity to contribute to the TileCal and TDAQ upgrades for the High-Luminosity LHC and to physics analysis with LHC Run 2 and Run 3 data. During his/her research, the candidate will learn advanced instrumentation and data analysis techniques (machine learning, statistical tools, etc). The position will be based in Valencia and will require research stays at CERN.

### **Requirements:**

Applicants must hold a Master degree in Physics or related subjects. Candidates are expected to have strong interest in the analysis of particle physics data, be capable of personal initiative. Good software skills (C++, Python, ROOT) and previous research experience in experimental particle physics would be desirable.

### **Application:**

Interested candidates should send their application (including a motivation letter, CV, academic transcripts, and the contact information of two referees) to:

[Arantxa.Ruiz@ific.uv.es](mailto:Arantxa.Ruiz@ific.uv.es), [Alberto.Valero@ific.uv.es](mailto:Alberto.Valero@ific.uv.es), [Joaquin.Poveda@ific.uv.es](mailto:Joaquin.Poveda@ific.uv.es).

Review of applications will begin on September 20th and continue until the position is filled.