



**CSIC**  
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS



VNIVERSITAT  
DE VALÈNCIA

## **Ph.D. position in experimental particle physics with the ATLAS experiment at LHC**

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

The ATLAS research group at IFIC has greatly contributed to the construction of the hadronic Tile Calorimeter (TileCal) and Semiconductor Tracker (SCT), and it is very active in the upgrade of the TileCal electronics and the construction of the new inner tracker (ITk) for the Phase-II upgrade towards the High-Luminosity LHC (HL-LHC). The group is strongly involved also in trigger, E/Gamma and Tau Combined Performance groups, and several physics analyses on topics such as Higgs boson and top-quark measurements or Higgs, Di-boson, Exotic and SUSY searches.

### **Job description and requirements:**

We offer a PhD position for a maximum of 4 years to join the IFIC-Valencia ATLAS group towards a PhD thesis about the study of the Higgs boson and the top quark.

The successful candidate will become a member of the ATLAS collaboration, and will have the opportunity to participate in data taking activities during Run 3 and contribute to hardware or software developments, including short stays at CERN as part of these tasks. During his/her research, the candidate will also learn advanced data analysis techniques (machine learning, statistical tools, etc).

Applicants must hold a University degree giving access to PhD studies by the time of enrollment in the PhD program. Candidates are expected to have strong interest in the analysis of particle physics data, be capable of personal initiative and be willing to be involved in one of the largest scientific experiments in the world. Good software skills (C++, Python, ROOT) and previous research experience in experimental particle physics would be desirable.

Interested candidates are requested to send their application (including a motivation letter, CV, academic transcripts, and the contact information of two persons who could provide letters of reference) to Dr. Ximo Poveda ([jpoveda@ific.uv.es](mailto:jpoveda@ific.uv.es)) and Prof. Luca Fiorini ([Luca.Fiorini@ific.uv.es](mailto:Luca.Fiorini@ific.uv.es)). For full consideration, applications should be sent by March 15th 2020 but later applications may also be considered until the position is filled.

For further Information please contact X. Poveda and L. Fiorini by email.