

## PhD position in experimental particle physics with the ATLAS experiment at LHC

The ATLAS group at IFIC-Valencia invites applications to pursue a PhD 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 and its applications, covering both the theoretical and experimental aspects of these fields. More information about the 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, 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 sector.

The successful candidate will become a member of the ATLAS collaboration, and will have the opportunity to participate in data-taking activities during the Run 3 of the LHC and contribute to hardware or software developments, including 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 degree giving access to PhD studies from an **University outside the European Union** 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) at: <https://academicjobsonline.org/ajo/jobs/18706>.

**Applications received by 25<sup>th</sup> of June 2021 will receive full consideration.**

Further information about the position can be obtained from:  
Prof. Luca Fiorini ([Luca.Fiorini@cern.ch](mailto:Luca.Fiorini@cern.ch))