



**Institut de Física
d'Altes Energies**



“UAB-PIF” Predoctoral Position in Hadron Collider Physics at the LHC with the ATLAS Detector (IFAE-Barcelona)

The High Energy Physics Institute in Barcelona (IFAE-Barcelona) announces the opening of a Predoctoral Position to participate in its hadron collider experimental program using the ATLAS detector at the LHC. IFAE is one of the top research centers in Spain conducting experimental and theoretical research at the frontier of fundamental physics, as well as developing cutting-edge detector technology. In 2012 and 2016, IFAE was awarded the distinction of “Severo Ochoa” Centre of Excellence by the Spanish Ministry of Economy and Competitiveness.

General information about IFAE is available at <http://www.ifae.es>.

IFAE maintains a strong presence in the ATLAS experiment at CERN (Switzerland), with major responsibilities on the calibration and maintenance of the TileCal hadronic calorimeter and the Level-1 Topological Trigger system, and participates in IBL operations and the Pixel detector upgrade. The IFAE-ATLAS group has developed an exciting and broad research program that includes precision measurements of the top quark and the Higgs boson, and searches for new phenomena beyond the Standard Model (e.g. supersymmetry, extra spatial dimensions, dark matter, new heavy quarks and Higgs bosons, etc). The successful PhD candidate will play a leading role in physics analysis using the full Run 2 and early Run 3 datasets, and participate in the maintenance and operation of the ATLAS detector. He/she will carry out a significant fraction of his/her research at CERN in collaboration with other PhD students and postdoctoral researchers.

This position is associated with a PIF (“Personal Investigador en Formación”) Fellowship within the experimental IFAE unit of the Physics Department at the Universitat Autònoma de Barcelona (UAB). This Fellowship begins on September 1, 2020 and has a maximum duration of 4 years during which the PhD Thesis will be completed. The successful Fellow will have a maximum of 60 hours of teaching (in Spanish or Catalan) throughout the academic course, which can be concentrated in a single semester.

Eligible candidates must have an excellent CV and expect to obtain the Master Degree in Physics during the 2019/2020 academic year (in the past that meant before September 30 but this year there may be an extension).

IFAE is an equal opportunity employer committed to diversity in the workplace, and we welcome applications from all qualified candidates. Women are particularly encouraged to apply.

Any inquiries specific to the position described above should be addressed to Aurelio Juste (juste@ifae.es) and Imma Riu (imma.riu@ifae.es) **before May 15, 2020**, although applications will be accepted till the PIF Fellowship call opens.