



**Institut de Física
d'Altes Energies**



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 CERN's Large Hadron Collider (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 the LHC, with major responsibilities on the calibration and maintenance of the TileCal hadronic calorimeter and the Level-1 Topological Trigger system, and participates in 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.

The successful PhD candidate will join the IFAE-ATLAS group and will participate in first-class research with the ATLAS detector. They will play a leading role in physics analysis using the full Run 2 and Run 3 datasets, and participate in the operation of the ATLAS detector, as well as in its preparation for the High-Luminosity LHC.

Interested candidates with an excellent CV, a demonstrable English level, a pro-active attitude and good communications skills, are encouraged to apply. IFAE is an equal opportunity employer committed to diversity in the workplace, and we welcome applications from all qualified candidates.

Applications must be submitted to Dr. Aurelio Juste (juste@ifae.es), Dr. Imma Riu (imma.riu@ifae.es) and rrhh@ifae.es by **December 20, 2024**, including the job reference (IFAE2024/55_ATLAS_PhDStudent) in the subject of the e-mail. The mail should include a motivation letter, updated CV, and a full list of university grades, and arrange to have two letters of reference sent to the above e-mail addresses. You may contact Dr. Aurelio Juste and Dr. Imma Riu for any questions related to this job opening.

More information:

<https://www.ifae.es/careers/jobs/2024/11/phd-student-position-for-the-atlas-group-2/>