



Institut de Física
d'Altes Energies



Barcelona Institute of
Science and Technology

Postdoctoral 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 Research Associate postdoctoral position to participate in its hadron collider experimental program using the ATLAS detector at CERN's Large Hadron Collider (LHC). The initial duration of the position is 2 years but it may be extended by mutual agreement.

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.

IFAE maintains a strong presence in the ATLAS experiment, 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 (e.g., four-top-quark production) and the Higgs boson (e.g., top-Higgs Yukawa coupling), and searches for new phenomena beyond the Standard Model (e.g., dark matter, supersymmetry, vector-like quarks, leptoquarks, additional light or heavy Higgs bosons).

The successful candidate will have the option of being based at CERN, joining a competitive team of several PhD students, postdoctoral researchers, and staff scientists from IFAE. He/she will be expected to play a leading role in one of the current/planned research lines, as well as in detector-related activities.

Applicants should hold a Ph.D. in Experimental Particle Physics. They should provide a curriculum vitae, a brief description of research interests, and arrange for three letters of recommendation to be sent by e-mail to Dr. Aurelio Juste (juste@ifae.es) and Dr. Imma Riu (imma.riu@ifae.es).

Applications received by **December 10th, 2021** will receive full consideration. However, applications will be accepted until the opening is filled.

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.

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