

Postdoctoral Positions 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 two Research Associate postdoctoral positions 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, 2016 and 2025, 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 Trigger and 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, di-Higgs, tri-Higgs production), and searches for new phenomena beyond the Standard Model (e.g., supersymmetry, vector-like fermions, leptoquarks, additional light or heavy Higgs bosons). The successful candidates are expected to play a leading role in one or several of the above research lines, as well as in detector upgrade activities.

Applicants should hold a Ph.D. in Experimental Particle Physics, which should have been obtained during the last three years. 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. Imma Riu (imma.riu@ifae.es), Dr. Tamara Vázquez Schröder (tvazquez@ifae.es) and rrhh@ifae.es stating the job reference (IFAE2026/26_ATLAS_2 Postdocs) as the subject of the message.

Applications should ideally be received by **10 June 2026** but will remain open until filled. The selected candidates are expected to start working in IFAE as soon as possible and no later than Fall 2026.

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>.