

Postdoctoral Positions in Experimental Particle and Astroparticle Physics and Cosmology at CIEMAT Madrid

The CIEMAT-Física de Partículas Research Unit of Excellence María de Maeztu (MdM-CFP) at the Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT) in Madrid is offering several two-year postdoctoral positions in Experimental Particle and Astroparticle Physics and Cosmology.

The MdM-CFP Unit is involved in large international experiments at the forefront of knowledge and technology in Particle and Astroparticle Physics, Cosmology, detector R&D and Scientific Computing areas. The postdoctoral positions are funded by the María de Maeztu Excellence Grant and are expected to start in Fall 2016. The research lines are:

- Hadron Collider Physics at the Energy Frontier with the CMS experiment at LHC (CERN)
- Neutrino oscillation physics in the Double Chooz (France), WA105 (CERN) and DUNE (Fermilab) experiments
- Direct search for dark matter with the ArDM experiment at Canfranc and DarkSide at LNGS
- Cosmic-ray physics with the AMS experiment at the International Space Station
- Very-high energy gamma-ray astronomy with CTA at Observatorio del Roque de los Muchachos (ORM)
- Dark energy studies with DES at Cerro Tololo and PAU at ORM
- Galaxy evolution: its relation with molecular cloud and star formation and the role of high energy processes
- Detector R&D: development and tests of muon detectors and highly segmented calorimeters for LHC upgrade and future particle colliders (CMS & CALICE)
- Data-intensive high throughput computing at the Worldwide LHC Computing Grid (WLCG)

Applicants should have completed a PhD in Experimental Particle or Astroparticle Physics or in Astrophysics/Cosmology by the time the contract starts. Interested candidates should send their applications in pdf format (including a curriculum vitae, a summary of their research experience and a statement of their research interests) to MdM.CFP@ciemat.es. They should also arrange for at least two reference letters to be sent to this address. Consideration of applications will start immediately and will continue until the positions are filled.

More calls under the María de Maeztu Program are planned during 2017.

General inquiries in relation to the positions can be addressed to MdM.CFP@ciemat.es.

More details about the research lines and MdM-CFP Unit are available at: <http://cfp.ciemat.es>.

The CIEMAT Particle Physics Unit of Excellence is an affirmative action/equal opportunity employer. Eliminating gender inequalities by promoting equal opportunities for men and women is a core compromise of our group and it is our commitment to establish the necessary actions to close the gender gap.