

THE CATHOLIC UNIVERSITY OF AMERICA

Post-Doctoral Researcher (full-time, 35 hours/week)
Physics Department
Position 101927

Position Summary: The physics department at The Catholic University of America has an immediate opening for a Post-doctoral researcher to work on the Compact Muon Solenoid (CMS) experiment at the CERN Large Hadron Collider.

The CMS group at The Catholic University of America has leading roles in the silicon pixel tracking detectors of the CMS experiment, including the commissioning and operation of the Phase-1 Forward Pixel Detector upgrade which was recently installed in CMS, and research and development of the next generation pixel tracker for the High Luminosity LHC Upgrade (HL-LHC). Members of our group played leading roles in the original construction of the CMS Forward Pixel Detector, the Phase-1 Upgrade and are working towards the next generation of detector. Group members have leadership roles in CMS physics analyses with interests ranging from searches for exotic particles to Higgs physics. The CUA CMS group is also a QuarkNet site (<https://quarknet.i2u2.org>). The successful applicant would work closely with the CUA CMS group, including advising and directing graduate and undergraduate students and working with QuarkNet teachers.

The position would be based both in Washington DC working on R&D for the HL-LHC upgrade and part time at CERN to participate in operations. The successful applicant is expected to play leading roles in physics analysis, operations and R&D for the construction of the new pixel detector for CMS.

Essential Responsibilities Include: Assist the Professors within the CMS Group at Catholic University. Design, carryout physics analyses and publish results using LHC data. Working on R&D for the HL-LHC upgrade and part time at CERN to participate in operations. In particular, design and testing of new hybrid module technologies for the HL-LHC upgrade to the CMS Forward Pixel Detector will be an area of responsibility. Advise graduate and undergraduate students. Work with QuarkNet teachers.

Minimum Qualifications: A PhD or about to obtain a PhD in experimental particle physics, experimental nuclear physics or a closely related field.

How to apply: forward application, resume, and cover letter with salary requirements as an attachment to **(salary expectations are considered part of application process):** CUARecruitment@cua.edu. Reference position 101927 in subject line of email. Please do not include photos on resumes and save documents with first/last names. **All applicants must be supportive of the mission and vision of *The Catholic University of America*.** Position is open until filled.

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