

Postdoctoral position (immediately available)

The high-energy physics group at Texas A&M University (TAMU) at Qatar is seeking a postdoctoral research associate to work on the Compact Muon Solenoid (CMS) experiment at the Large Hadron Collider (LHC) at CERN. The group is actively involved in the muon detector operation/upgrade and physics program. The group works closely with our collaborators from TAMU at College Station, Texas as well as the CMS-wide muon collaboration.

We expect the successful applicant to significantly contribute to TAMU-Qatar's involvement in the CMS Phase2 muon upgrade with the Gas Electron Multiplier technology for the High-Luminosity LHC as well as maintenance and operation of the current detector. Candidates also interested in exploring machine learning in particle physics are welcome, where we have an access to the TAMU-Q Cray supercomputer of 4000+ cores and 1 PB storage capacity. The supercomputer is used for an extensive detector simulation for the muon upgrade system.

The candidate will also play a leading role in physics analyses in the Higgs sector and supersymmetry, in connection with dark matter. The candidate will have a chance to supervise students and young researchers.

Candidates must possess a Ph.D. in experimental particle physics by the appointment start date. The position is located in TAMU-Qatar in Doha Qatar, but required to frequently traveling to CERN. Priority will be given to candidates with a proven track record of excellence in LHC physics research, including both significant data analysis and/or detector simulation experience. This position is initially a one-year appointment which can be renewed.

To apply, please submit: i) a cover letter, ii) an updated CV, iii) a brief research statement and iv) contact information for 3 references to Prof. Othmane Bouhali
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