The High Energy Physics Group at Purdue University has an opening for a postdoctoral research associate to work on the CMS experiment.

The Purdue CMS group has extensive involvement in many aspects of CMS, including hardware, software, and physics analysis. We are pursuing an exciting physics program at the 13 TeV energy regime at the LHC and the current physics analysis activities of the group include measurements of Standard Model processes, the search for new heavy gauge bosons and the study of the Higgs boson. The group is actively engaged in all aspects of triggering and reconstruction of muons with a physics focus on the analysis of di-lepton final states. In addition, the group is involved in detector upgrade projects using an in-house facility to design, develop and build silicon detectors. At Purdue we operate a Tier-2 computer center, providing resources for data analysis both locally and as part of the CMS computing Grid.

The successful candidate is expected to take on a leadership role in CMS Run 2 physics analyses in the areas of Higgs precision measurements and/or searches for physics beyond the Standard Model. The candidate will also contribute to our group’s efforts in the development of muon reconstruction and High-Level trigger software. Candidates should have a Ph.D. in experimental particle physics, excellent data analysis, computing and programming skills and the ability to carry out an independent research program. The position will be based either at CERN or in West Lafayette, IN.

The position is available immediately and applications will be considered until the position is filled. The appointment is initially for one year and renewable annually, subject to mutual satisfaction. Interested candidates should send a curriculum vitae and arrange for three letters of recommendation to be sent to: Prof. Norbert Neumeister (neumeist@purdue.edu).

Purdue University is an Equal Opportunity Affirmative Action Employer. Applications from minority and female candidates are encouraged.