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

The selected candidate will work in a group that has extensive involvement in many aspects of CMS, including hardware, software, and physics analysis. We are pursuing an exciting physics program with a focus on searches for new physics in final states with two or more leptons. The current physics analysis activities of the group include searches for new heavy gauge bosons and contact interactions, the study of the properties of the Higgs boson and SUSY searches. The group is actively engaged in all aspects of triggering and reconstruction of muons. In addition, the group is involved in Phase-II 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 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 operation of the FPIX detector and 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 at CERN or FNAL, by mutual agreement.

The position is available immediately and applications will be considered until the position is filled, but to ensure full consideration, candidates should apply by Apr 5, 2019. Interested candidates should send a curriculum vitae together with a short statement of physics interests 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.