

## **POSTDOCTORAL RESEARCH ASSOCIATE AT PURDUE UNIVERSITY**

The High Energy Physics Group at Purdue University has an opening for a passionate and driven 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. The group is deeply involved in detector upgrade projects using an in-house facility to design, develop and build silicon detectors. At Purdue we also operate a Tier-2 computer center, providing resources for data analysis both locally and as part of the CMS computing Grid.

The position offers exciting possibilities in the analysis of the new 13 TeV collision data. The selected candidate will work in the wide area of top quark physics, and in the application of precision measurements to search for new physics. The successful candidate is expected to take on a leadership role in the physics analysis efforts within the top quark physics group. The candidate has ample opportunity to have a substantial involvement in the ongoing R&D efforts for the HL-LHC upgrades of the forward silicon pixel detector and its support structures.

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. Prior experience with CMS will be weighted preferably and existing experience with silicon detectors is an advantage.

The position is available starting February 19, 2018 and applications will be considered until the position is filled. The appointment is initially for one year and renewable annually, subject to mutual satisfaction. Salary range: \$48,500 -- \$52,500 depending on the experience. The position will be based in West Lafayette, IN, although occasional travel to CERN and to the LHC Physics Center at Fermilab is expected for a number of short trips per year and/or extended periods of time, e.g. for CMS detector operations.

Applications should include a curriculum vitae, a list of publications, a description of research interests (2 pages), and three letters of recommendation. The complete application material should be submitted by email to [anjung@purdue.edu](mailto:anjung@purdue.edu). Complete applications will be considered immediately. To ensure full consideration, candidates should apply by February 15, 2018. For information about the position, please contact Prof. Andreas Jung ([anjung@purdue.edu](mailto:anjung@purdue.edu)).

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

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