



DEPARTMENT OF PHYSICS

INDIANA UNIVERSITY
College of Arts and Sciences
Bloomington

December 3, 2019

The Physics Department at Indiana University (IU) Bloomington invites applications for a post-doctoral position with its group working on the ATLAS experiment at the Large Hadron Collider. It is expected to last for three years, subject to funding availability and satisfactory performance. Experience with hardware instrumentation, electronics and computing is particularly valuable, as well as a strong interest in searching for physics beyond the Standard Model.

The IU ATLAS group participates in a wide range of physics analyses, including Higgs, Vector Boson Fusion, Vector Boson Scattering, B Physics and exotic particle searches. We have had responsibilities for the design and fabrication of the barrel transition radiation tracker (TRT) and have continuing roles in TRT operations. We are also involved in the development of ATLAS Phase-I and Phase-II upgrades to the Level-1 calorimeter trigger, specifically the global feature extractor (gFEX) that will trigger on boosted objects and global event quantities. We are beginning to work on readout, control and monitoring of the new inner tracker (ITk). In addition, we operate an ATLAS Tier 2 computing site at Indiana University in collaboration with the University of Chicago and U. Illinois, Urbana-Champaign.

The successful applicant will be expected to play a leading role in ITk data acquisition, control and monitoring as well as in physics analysis. The eventual commissioning of the ITk may require a significant presence at CERN.

The starting date is negotiable, with a preference for spring 2020. Applications received before January 15, 2020 will receive full consideration, and applications will continue to be accepted until the position is filled. The position is annually renewable assuming satisfactory performance.

Applications, including a CV, a statement of research interests, and three letters of reference, should be submitted through the application portal located at:
<http://indiana.peopleadmin.com/postings/8969>

For questions please contact the Physics Department at +1-812-855-1247 or Prof. Christopher Meyer (cjmey@iu.edu), Indiana University, 727 E 3 St, Bloomington, IN 47405.

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