



Department of Physics
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Postdoctoral Research Position in Elementary Particle Physics

The High Energy Physics (HEP) Group at the University of Illinois at Urbana-Champaign has an opening for a postdoctoral Research Associate. The successful candidate will join the newly-formed *Institute for Research and Innovation in Software for HEP* (IRIS-HEP; see <http://iris-hep.org>), which aims to enable further discoveries in fundamental physics through innovations in software cyberinfrastructure. The candidate will spend approximately half of their research effort working within the Data Analysis Systems Group of IRIS-HEP and the other half playing a leading role in analyzing data from the ATLAS experiment at CERN's Large Hadron Collider. The position will be based either at CERN in Geneva, Switzerland or in Champaign-Urbana, IL.

The Illinois HEP Group has active programs in theoretical, computational, observational, and experimental cosmology, astrophysics and particle physics and is growing significantly in these areas. The University of Illinois is a recognized leader in high-performance computing and hosts the National Center for Supercomputing Applications, the National Petascale Computing Facility where one of the world's most powerful supercomputers (Blue Waters) is located, and a Tier-2 Computing Center for processing, simulating and analyzing data from the ATLAS experiment.

The Illinois ATLAS Group is broadly focused on searches for physics beyond the standard model and has a strong involvement in the development of fast particle tracking systems, including the Fast Tracker and the Phase-II Hardware Track Trigger upgrade for the ATLAS trigger.

Qualified candidates must have a Ph.D. (or equivalent) in particle physics by the time of appointment. The successful candidate will be expected to play a leading role in ATLAS data analysis and actively collaborate with the Institute. The ideal candidate would have strong experience and interest in machine learning and data analysis for particle physics, and a working knowledge of modern sustainable software tools and methods within the data science community.

Applicants should send curriculum vitae, a statement of research accomplishments and interests, and arrange for at least three letters of recommendation to be sent via email to Prof. Mark Neubauer (msn@illinois.edu).

Applications received by **November 30, 2018** will receive full consideration. Review of applications will continue until the position is filled.

Illinois is an Affirmative Action/Equal Opportunity Employer and welcomes individuals with diverse backgrounds, experiences, and ideas who embrace and value diversity and inclusivity (<http://www.inclusiveillinois.illinois.edu>).