



**Post-Doctoral Fellow  
Harvard University  
Laboratory for Particle Physics and Cosmology**



The Laboratory for Particle Physics and Cosmology at Harvard University invites applications for a Post-Doctoral Fellowship to be associated with the ATLAS experiment. Applicants for this position should have a Ph.D. in experimental particle physics. Experience with state-of-the-art detector systems and with the analysis software of a particle physics experiment are required. For any questions regarding this opening, please contact Prof. Masahiro Morii ([masahiro\\_morii@harvard.edu](mailto:masahiro_morii@harvard.edu)).

Applicants should send a curriculum vitae, a list of publications, and a statement of research interest, and arrange for three (3) letters of reference to be sent electronically to Prof. Masahiro Morii ([masahiro\\_morii@harvard.edu](mailto:masahiro_morii@harvard.edu)), or by mail to:

Masahiro Morii  
Lyman Laboratory of Physics  
Harvard University  
17 Oxford Street  
Cambridge, MA 02138  
USA

Applications sent by September 30, 2017, will receive full consideration.

*Harvard is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability status, protected veteran status, or any other characteristic protected by law.*

## **Frequently Asked Questions**

### **When does the job start?**

Funding for the position is available from October 1, 2017. The appointment may be delayed if the successful candidate is not immediately available. We wish to fill the position as early as possible, but the quality of the candidate is more important for us than the timing of the appointment.

### **How long is the postdoc appointment?**

The appointment is initially 3 years, with a possible extension to the 4th year. Strictly speaking, the position is contingent on funding availability, and the contract is renewed year-by-year.

### **Will I be at CERN or at Harvard?**

It will be decided by discussion between the successful candidate and Prof. Morii. We normally station half of our postdocs at CERN.

### **What kind of physics does Harvard do?**

Harvard ATLAS group is currently involved in Higgs ( $H \rightarrow bb$ , HH resonance), SUSY (squark/gluino, stop, Higgsino, long-lived particles), and Dark Matter search (mono-jet). Prof. Morii is working on the SUSY and DM searches. The group has also worked on many Standard Model measurements, including Z, W, WW, WZ, and W + b-jets.

### **Will I work on SUSY or Dark Matter, then?**

You are welcome to. You are also welcome to pitch your own idea. Either way, we expect you to be leading the analysis, both intellectually and organizationally. So, you'd better have a clear perspective of the physics you are getting into.

### **Is Harvard involved in detector upgrades?**

The group is involved in the Muon New Small Wheel (NSW) and the Inner Tracker (ITk) upgrade projects. Prof. Morii is (as of 2017) working at Brookhaven National Laboratory on the ITk strip detector.

### **I am not an ATLAS member. Can I apply?**

Definitely. ATLAS rules require a new ATLAS member to devote 50% of his/her first year on a 'qualification task'. That's no different from what we consider appropriate for our postdocs, ATLAS-trained or otherwise.