

Postdoctoral Fellow Mentoring

One postdoctoral fellow will be funded on this project. There are extensive postdoctoral fellowship mentoring activities at UB, at the Fermi National Accelerator Laboratory (FNAL), and via the CMS Experiment at CERN. These include guidance in career paths, work/life balance discussions, and technical skill development such as writing grant proposals, etc. Specific elements are highlighted below.

- **University at Buffalo (UB)**

- The UB Office of Postdoctoral Scholars offers diverse services for postdoctoral fellows, including the *“Postdoc Survival Skills Workshops”*, targeted seminars and symposia for postdoctoral fellows, social functions, and logistical assistance.
- The UB Physics Department offers several services to our postdoctoral fellows, including a biweekly Journal Club for particle physics and cosmology, weekly seminars and colloquia, and weekly social functions inside the department.

- **Fermi National Accelerator Laboratory (FNAL)**

- The postdoctoral mentoring programs at FNAL are well-developed and tailored specifically for US-based researchers in particle physics. This includes the “LHC Physics Center” (LPC) at FNAL, which is a “brick-and-mortar” place for LHC researchers to be productive in a place other than CERN, as well as to provide much-needed visibility for postdoctoral fellows in a large collaboration.
- FNAL provides a continuous stream of colloquia, seminars, workshops and conferences throughout the year where postdoctoral fellows can meet others in their field, expand their learning opportunities, and provide a forum for them to present their work on a regular basis.

- **CMS Experiment and CERN**

- As at FNAL, the opportunities for a postdoctoral fellow at CERN and at CMS are extensive. There are also a plethora of workshops, seminars, conferences, etc, at CERN. There are also smaller weekly avenues for networking possibilities, as well as seminars for postdoctoral fellows to gain visibility for their work.
- It is also worth pointing out that, because of the world-class nature of CERN, it often attracts very high-level members of the particle physics community on a regular basis. Such opportunities for visibility among the top-tier scientists in the world (including Nobel and Milner Prize winners, etc) are hard to understate.

In all, the postdoctoral fellow that will be supported by this proposal will have ample opportunities for professional advancement and development, as well as a myriad of opportunities for a community of peers in both professional and social settings.