

Job Overview

The LHCb Group in the Department of Physics within the University of Cincinnati's College of Arts & Sciences invites applications for a Postdoctoral Research Fellow position whose primary responsibilities will be software research, development, and deployment in support of the LHCb experiment at CERN.

Faculty research directions within the LHCb Group at the University of Cincinnati include studies of flavor physics (b- and charmed-hadron physics), exotica, QCD, and electro-weak physics. A recent Postdoctoral Research Fellow also took a leading role in LHCb's heavy ion program. The selected candidate will be expected to make substantial contributions to software research, development, deployment & maintenance as part of LHCb's RTA Project (Real Time Analysis). The individual may also contribute to the DPA Project (Data Processing and Analysis). It is anticipated that the selected candidate will be based at CERN.

Required Education

Candidates should have a Ph.D. in experimental particle physics or a closely related area.

Required Experience

Analysis of particle physics data sets
Expert knowledge of C++
Expert knowledge of Python
Effective communication skills, both oral and written.

Additional Qualifications Considered

Knowledge of CUDA.
Knowledge of PyTorch or a similar deep learning framework
Experience writing software trigger infrastructure.
Experience mentoring more junior researchers

Application Process

In addition to the online application (go to jobsatuc.edu and search for "LHCb"), interested candidates should submit:

A cover letter with no more than one page;
A current curriculum vitae including a list of up to 10 publications;
A statement describing research interests (up to three pages).

Applicants should arrange to have at least three letters of reference sent separately to ucphysics@ucmail.uc.edu.

Review of applications will begin on February 17, 2025 and continue until the position is filled. Interested candidates should contact Prof. Michael Sokoloff (mike.sokoloff@uc.edu) for more information on the position