

Post-Doctoral Research Associate at Mississippi State University

The Medium Energy Physics Group at Mississippi State University invites applications for a Postdoctoral Research Associate position. The group's research interests include the study of sea quark distributions, the EMC effect, and parton energy loss with the Drell-Yan experiment at Fermilab, Batavia, IL. The group aims to study the poorly known gluon transverse momentum distributions using J/Psi production with the polarized Drell-Yan, E1039, experiment at Fermilab.

In addition the group also has a very active program in studies of nucleon structure, hadronic physics and fundamental symmetries at Jefferson Lab, Newport News, VA, such as the study of color propagation and fragmentation process, the search for the onset of color transparency, and precision measurement of charge symmetry violation in quark distributions.

We are looking for candidates who will continue leading our effort on developing an advanced graphics processing unit (GPU) based multi-threaded framework for the online data reconstruction and monitoring, the commissioning and maintenance of the tracking chambers, and the running of the E1039 experiment. The candidate could be stationed at Fermilab depending on the running schedule and needs of E1039.

A Ph.D in experimental nuclear or particle physics or related fields is required. A prior knowledge and experience with GPU-based programming is preferable. The initial appointment is for one year, and can start as early as February 16, 2019. The appointment can be extended for a maximum of two additional years, based on mutual satisfaction and available fund.

Screening of applications will begin immediately and will continue until the position is filled. Applications' documents including a curriculum vita, brief statement describing research interests and work experience must be submitted online at www.msujobs.msstate.edu, and the three recommendation letters should be sent electronically to: Prof. Lamiaa El Fassi (le334@msstate.edu).

Mississippi State University actively solicits applications from minorities, women, and people with disabilities and is an EEO/AA employer.