

POSTDOCTORAL RESEARCH ASSOCIATE (Fermilab-based Project)

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. The group has recently joined the polarized Drell-Yan, E1039, experiment at Fermilab to study the poorly known gluon transverse momentum distributions using J/Ψ production.

In addition the group also has a very active program in studies of nucleon structure, hadronic physics and fundamental symmetries at Jefferson Lab, 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 help lead 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. Preference will be given to candidates with GPU-based programming knowledge and experience. The initial appointment is for one year, and can start as early as October 1, 2018. 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 and 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.