POSTDOCTORAL RESEARCH ASSOCIATE (Stationed at Jefferson Lab)

The Medium Energy Physics group at Mississippi State University invites applications for a Postdoctoral Research Associate position. The group has research interests that include studies of nucleon structure and QCD dynamics in nuclei at Jefferson Lab and Fermilab, such as the precision measurement of color propagation and fragmentation processes, the study of color transparency phenomenon, and the partonic structure of bound nucleons. Additionally, the group is interested in studying sea quarks distributions, the EMC effect, and the parton energy loss with the polarized and unpolarized Drell-Yan experiment at Fermilab.

We are looking for candidates who will be stationed at Jefferson Lab and will lead our efforts on ongoing CLAS12 nuclear-target data analyses and forthcoming experiments, mainly color transparency and nuclear TMDs (Run Group D), color propagation (RG-E), and software development for a Low Energy Recoil Tracker (RG-L) track reconstruction as well as particle identification via Artificial Intelligence techniques. The successful candidate will be encouraged to actively participate in developing new experimental proposals at Jefferson Lab.

A Ph.D. in experimental nuclear or particle physics or related fields is required, along with proficiency in programming and data analysis concepts. Preferences will be given to candidates with knowledge or interest in AI techniques.

Candidates must apply online at http://explore.msujobs.msstate.edu/ (*JOB #: 507393*) and include a curriculum vita or resume, a brief statement describing research interests as well as work experiences, and at least two reference letters should be sent electronically to Dr. Lamiaa El Fassi (le334@msstate.edu).

Screening of applications will begin immediately and continue until the position is filled—applications received by mid. April 2024 will receive full consideration.

MSU is an equal-opportunity employer, and all qualified applicants will receive consideration for employment without regard to race, color, ethnicity, sex, religion, national origin, disability, age, sexual orientation, genetic information, pregnancy, gender identity, status as a U.S. veteran, and/or any other status protected by applicable law. We always welcome nominations and applications from women, members of any minority group, and others who share our passion for building a diverse community that reflects the diversity in our student population.