Postdoctoral Positions in Experimental Nuclear Structure Physics
University of Massachusetts Lowell

Two post-doctoral positions are available immediately in the heavy-ion nuclear structure group of the Department of Physics and Applied Physics at the University of Massachusetts Lowell. A Ph.D. in experimental nuclear physics or a closely related field is required. Experience with state-of-the-art nuclear detectors and techniques, as well as multi-parameter data acquisition and analysis of accelerator-based heavy-ion experiments is desirable.

One position is funded through a collaborative project with Argonne National Lab. The project will utilize neutron-rich beams produced at the CARIBU upgrade of the ATLAS facility, for fundamental research on the beta-decay of neutron-rich fission fragments relevant for advanced fuel cycle studies, as well as on nuclear structure and astrophysics. A specific charge for Lowell is to implement the data acquisition and analysis hardware and software. The second position is for high-spin nuclear structure studies funded through a continuing Department of Energy grant. Recent experiments, using the Gammasphere array at Argonne, have focused on shapes and symmetries in heavy, deformed, neutron-rich nuclei using deep-inelastic reactions. Other funded research activities of the group include development of emerging nuclear detectors and instrumentation for spectroscopy and imaging applications. Experimental facilities on campus include a 5.5 MV Van de Graaff accelerator and a 1 MW research reactor. The university is situated in the historic city of Lowell, on the Merrimack river, a half-hour north-west of Boston.

The successful candidates will be integral members of the research group, expected to mentor graduate and undergraduate students, with possible teaching opportunities in the department for qualified candidates. The appointments will be for two years with the possibility of renewal for an additional year.

A CV, publication list, brief outline of research interests and contact information for three references should be sent (or e-mailed) to:

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