Mock job advertisement

Postdoctoral research associate at Old Dominion University
Experimental Nuclear Physics

SUMMARY: The Old Dominion University Experimental Nuclear Physics group is seeking a postdoctoral associate to help lead the preparation and analysis of experiments at the nearby Thomas Jefferson National Accelerator Facility (Jefferson Lab). The group, consisting of Profs. M. Amaryan, S. Bueltmann, G. Dodge, C. Hyde, S. Kuhn, and L. Weinstein plus Jefferson Lab affiliates, is one of the largest research groups at Jefferson Lab. Experimental topics include deeply virtual Compton scattering, nucleon spin structure functions, nucleon-nucleon correlations, and hadron spectroscopy. We are also developing and building detectors and targets for the Jefferson Lab 12 GeV Upgrade and developing physics and detector simulations for a possible future electron-ion collider. It is anticipated that the candidate will focus on our research program in Hall B, and will also assist in maintaining our computation cluster.

SPECIFIC DUTIES: Preparing for and executing nuclear physics experiments, Analyzing nuclear physics experiments and presenting and publishing the results. Supervising graduate students. Helping design, prototype and build particle detectors and targets. Simulating experiments and particle detectors. Maintaining Linux farm.

MINIMUM EDUCATION REQUIRED: A Ph.D. in experimental nuclear physics, or related field.

MINIMUM EXPERIENCE/SPECIFIC KNOWLEDGE/COMPLEXITY OF DUTIES: Duties will be very complex and variable, depending on the needs of the projects. Few or no written procedures will be available. The postdoc will be expected to make independent decisions and exercise discretion in carrying out their duties. Work requires some moderate physical exertion such as periods or standing, walking over rough uneven or rocky surfaces; recurring bending, crouching, stooping, stretching reaching or lifting of moderately heavy items (10-25 lbs).