

Postdoctoral Research Associate Position  
Experimental Nuclear Physics Group  
North Carolina A&T State University

The Nuclear Physics Group at the North Carolina A&T State University is accepting applications for a postdoctoral research associate position to work on the analysis of the PRad experiment (E12-11-106) and preparation, run and data analysis of a new experiment to measure the  $\eta \rightarrow \gamma\gamma$  decay width (E12-10-011). The position is available from November 1, 2018, The initial appointment will be for one year, with the possibility of extension for up to two additional years, subject to funding considerations and mutual agreement. For the past several years, the PRad Collaboration has developed and constructed a new experimental setup based on a novel windowless hydrogen gas flow target and multichannel electromagnetic calorimeter (HyCal) to measure the proton charge reduce with a high accuracy to address the current “proton charge radius puzzle” in hadronic and atomic physics. This experiment successfully performed in 2016 in Hall B at JLab with a collection of high statistics and rich experimental data set. The second experiment, the  $\eta \rightarrow \gamma\gamma$  decay width, is in its final stages of development, construction and preparation for a short test run in this fall and expected to perform the first part of the experiment in the spring of 2019 in Hall D at JLab.

The successful candidate will be located at Jefferson Lab and expected to take a leading roles in both experiments. Applicants must have a Ph.D. in experimental nuclear or high energy physics and experience working with hardware and software for accelerator based experiments, as well as, an extensive knowledge of data analysis techniques. Review of applications will start November 1, 2018 and will continue to accept applications until the position is filled.

Applicants should submit a cover letter, curriculum vitae, statement of research interests and experience and arrange to have three letters of recommendations sent (and emailed) to:

Dr. A. Gasparian, Professor of Physics  
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