

The **University of Washington Center for Experimental Nuclear Physics and Astrophysics** has an immediate opening for one or more postdoctoral appointments to work on a program of fundamental muon physics. This program features the newly approved muon  $g-2$  experiment at Fermilab and the MuSun experiment at PSI. At present, experiment differs from Standard Model theory for the muon anomaly by more than 3 standard deviations, an interesting hint of possible new physics. E989 was approved in January 2011 at Fermilab with the goal of reducing the experimental uncertainty by a factor of 4 or more. Our group—Professors Hertzog, Kammel, Garcia and Zhao—is co-leading the overall experiment, the Beam Team, and the Detector Team. We are seeking individuals who are interested in challenging design and implementation tasks related to this classic experiment. Our group is also leading the MuSun experiment, which was commissioned in 2010 and is just starting physics data taking at the Paul Scherrer Institute. MuSun will measure the semi-leptonic weak process of muon capture on the deuteron to a precision of 1.5%. This process is closely related to one of the most important nuclear reactions of the universe, solar pp fusion. Members of our group generally participate in all activities; thus, development work on  $g-2$  can be combined with data taking and analysis tasks related to MuSun. In both experiments a significant amount of hardware activities exist. We welcome highly motivated applicants having a Ph.D. in atomic, nuclear or particle physics within the last 3 years, or who are expecting a Ph.D. before starting the position. Applicants should submit with their application letter a curriculum vitae and a list of publications, and have three letters of recommendation, all sent electronically, to **Prof. David Hertzog (hertzog@uw.edu), CENPA, Box 354290, University of Washington, Seattle WA 98195**. *The University of Washington is an Affirmative Action/Equal Opportunity Employer.*