

MINOS / MINERvA Postdoctoral Researcher

College of William and Mary

The experimental high energy physics group at the College of William and Mary invites applications for a postdoctoral research associate to work on the MINOS long baseline neutrino oscillation experiment and the MINERvA neutrino scattering experiment.

MINOS is a two detector experiment designed to precisely measure neutrino oscillations over a 735km baseline, using a muon-neutrino beam created by the Fermilab Main Injector. The experiment began collecting data in 2005 and will run until at least the end of 2010. The William and Mary group is currently leading analysis of muon-neutrino disappearance, electron-neutrino appearance and neutrino inclusive and exclusive cross-sections. The group is also responsible for a significant fraction of the experiment's Monte Carlo production effort.

MINERvA is a high precision neutrino scattering experiment currently being constructed at Fermilab and scheduled to begin collecting data at the end of 2009. The experiment features a novel fully active scintillator tracking chamber used to image neutrino interaction products with excellent resolution, allowing for measurement of exclusive final states for a wide variety of processes. The tracking chamber is surrounded by electromagnetic and hadronic calorimeters and the detector will reside upstream of the MINOS Near Detector which serves as a muon spectrometer. The William and Mary group is responsible for scintillator plane construction and commissioning of a tracking prototype used for advanced system integration, development of calibration and operation procedures, cosmic-ray collection followed by possible neutrino exposure in Autumn 2008.

Applicants must have a PhD in experimental high energy or nuclear physics. Experience in programming, data analysis and/or hardware is expected. Applicants must be willing to reside at Fermilab for the majority of the appointment in order to assume an active and highly visible role in both experiments. Applicants should send a statement of research interests, a curriculum vitae, and three letters of reference, preferably via email, to:

Prof. Michael Kordosky
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Review of applications will begin immediately and will continue until the position is filled. The appointment will be made for one year with the intention of continued funding for a second year.

The College of William and Mary is an Equal Opportunity, Affirmative Action Employer. Women and minorities are strongly encouraged to apply.