The University of Maryland Particle Astrophysics Group is looking for a post-doc to work on the IceCube experiment. IceCube is the next-generation experiment designed to look for extraterrestrial sources of very high energy neutrinos. IceCube is currently under construction at the South Pole and detector deployment will begin this coming winter. We are looking for an exceptional candidate who is interested in developing data handling systems and physics analysis using data from this new detector. We believe it is an excellent time for a young person to join the experiment as they will have the opportunity to have a significant impact immediately.

IceCube is an international collaboration of 25 institutions with about 200 physicists. The experiment is located 2 kilometers below the South Pole, and uses antarctic ice as the detection medium. It will instrument a cubic-kilometer of ice with 4800 optical modules to detect the Cherenkov light produced by secondary particles produced in the interactions of high energy neutrinos in or near the detector. Potential sources include neutrinos from gamma-ray bursts and active galactic nuclei. IceCube will be the world’s largest neutrino telescope, opening a new window for observing the high energy universe.

The University of Maryland group is responsible for the online filtering system, which will select the subset of events that are transmitted immediately from the South Pole to the Northern Hemisphere. The selected candidate would be responsible for assisting in the implementation and maintenance of this system. Experience with programming for Linux in C/C++, data handling systems, and computer system operations/management is desired.

The techniques and equipment we use are common to the fields of high energy physics, nuclear physics and particle astrophysics. Talented applicants from any of these fields are encouraged to apply.

Interested persons should send a curriculum vitae, list of publications, and the names and address of three referees familiar with the candidates work (the candidate should have letters of reference sent directly) to the address below:

Professor Greg Sullivan
Department of Physics
University of Maryland
College Park, Maryland 20742

Further information can be obtained by contacting either
Greg Sullivan (sullivan@umdgrb.umd.edu) 301-405-6035 or
Erik Blaufuss (blaufuss@umdgrb.umd.edu) 301-405-6077.
See our Web page at: http://icecube.umd.edu/

Application review will begin immediately and will be accepted until filled.
The University of Maryland is an Affirmative Action Equal Opportunity Employer.