Title: Faculty Research Assistant (Non-Tenure, 100% FT)

Duties: The IceCube group at the University of Maryland is looking to fill a full-time position to assist researchers. IceCube is a one-cubic-kilometer international high-energy neutrino observatory being built and installed in the clear deep ice below the South Pole Station. The incumbent of this position will be responsible for developing software for online data filtering, offline analysis and simulations. Additionally, we maintain a small cluster of Linux computers. The primary task of this position will be to assist in the implementation, documentation, and support of the online data filtering system. This system will acquire data over a high-speed network, provide the data to a client in a farm of computers for analysis, regroup the data and analysis results, and write the data to disk. The incumbent will be responsible for interfacing this system with other systems operating at the experiment site at South Pole Station, Antarctica. Additionally, this position will provide maintenance and developmental support for the software analysis tools used for offline data analysis and help with some limited LINUX system administration work.

Qualifications: Education: B.S. in computer science or physics. Experience with network programming, CVS, and other LINUX software development tools are required skills. Familiarity with C/C++/Java programming in a LINUX environment highly desirable. As this work requires collaborating with engineers and physicists around the world, the ability to design and document software with multiple developers in different locations, as well as excellent oral and written communication skills are required. Familiarity with neutrino physics, LINUX system administration skills, and PC hardware experience are all also highly desirable. Some travel to report progress at collaboration meetings, workshops and reviews will be required.

Salary: Commensurate with experience.

To Apply: Please supply a letter of application, a resume, and the names and contact information for 3 references to:
Search Committee, IceCube
Particle Astrophysics Research Group
Department of Physics
University of Maryland
College Park, Maryland 20742-4111 OR

Email: icecube-job@icecube.umd.edu

Review of applications will begin immediately and continue until the position is filled. The University of Maryland is an EEO/AA employer.