CSDMS Postdoctoral Fellow

Job Description: The CSDMS Integration Facility, at the University of Colorado—Boulder, seeks a computational and/or geophysical ***post-doctoral fellow*** with experience in software development, to work in a team as a software engineer in the development of an integrated framework for the modular modeling of Earth-surface dynamics. The Integration Facility's software engineers handle community-generated code written in open-source languages (e.g. C, C++, Fortran, Python and Java), for use on multiple operating systems, and computational platforms ranging from desktops to High Performance Computers, employing a range of computational strategies (e.g. solvers, grids). As a member of the CSDMS software team, the successful candidate(s) will interact with a variety of science and engineering disciplines and more than 200 CSDMS members that contribute code in what may be best described as moderately documented, research-grade software. The position offers a fabulous work experience and contacts with academic, federal and industrial scientists from around the world. Travel opportunities would be available.

What is CSDMS: The Community Surface Dynamics Modeling System (CSDMS) promotes earth surface modeling by developing, supporting, and disseminating integrated software modules that predict the movement of fluids, and the production, erosion, transport, and deposition of sediment and solutes in landscapes and their sedimentary basins (http://csdms.colorado.edu).

Qualifications: A doctoral degree in Computational Science, or in one of the Earth Science fields (geophysics, engineering geophysics, oceanography, hydrology, civil engineering, environmental engineering, aerospace science, geological science).

Application Deadline: The initial position will remain open until filled, but a starting date of Sept 1, 2008, is possible. [**Note:** Unsuccessful but acceptable candidates from the competition will be transferred to a second competition for a job of similar description, to likely open up in the fall of 2008]. Applicants should send their updated CV along with two letters of reference to CSDMS@colorado.edu, with the subject line "Integration PDF Positions". The CSDMS Integration Facility and the University of Colorado is committed to diversity and equality in education and employment.

Salary and Funding: Salary is in the academic post-doctoral range, $45K/y to $50K/y, depending on experience. Funding for the first position is through the National Science Foundation; funding for the second fellow is through the developing CSDMS Industrial Consortium and or other U.S. agency funds.