

## **Postdoctoral Researcher**

One position/full-time

Department of Computer Science, Louisiana State University,  
Baton Rouge, Louisiana

A post-doctoral researcher position in scientific computing is available immediately in the Department of Computer Science, Louisiana State University, to perform computer simulations of Earth's mantle minerals. The position is funded by the National Science Foundation grant on the project "Rheology of materials of Earth's mantle: High-end computational/visualization research and education. The successful candidate will join the scientific computing and visualization group of Asst. Professor Bijaya B. Karkiat the department. The group has a local access to the 128 and 512 dual processors Linux Clusters of the university.

### **Required Qualifications:**

Potential candidates must have a Ph.D. degree in geoscience, physics, computational science or related field. Experience with molecular dynamics simulations, density-functional calculations, numerical methods and parallel programming is essential. Familiarity with visualization methods and graphics programming is a plus. The candidate is expected to perform parallel simulations to study the rheological properties (such as point defects, dislocations, grain boundaries, polycrystalline deformations) of silicate and oxide materials of Earth's mantle at high pressure and temperature conditions.

Salary will be commensurate with qualifications and experience. Application deadline is January 2, 2007 or until the candidate is selected. The appointment is initially for two years and can be extended based on the future funding situation. Submit letter of application and resume, including email address to: Bijaya B. Karki, Department of Computer Science, 298 Coates Hall, Louisiana State University, Baton Rouge, LA 70803, E-mail: [karki@csc.lsu.edu](mailto:karki@csc.lsu.edu), 225/578-3197.

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