

Post-doc Opportunity in High-Pressure Crystallography



The Crystallography Laboratory at Virginia Tech in Blacksburg VA has a position available for a post-doc to work on the evolution of feldspar structures with pressure. The project will be supervised by Professors Nancy Ross and Ross Angel.

Project description: The determination of the factors that govern the response of feldspar structures to high pressures. Measurements will be performed by single-crystal high-pressure X-ray diffraction, with diamond anvil cells and diffractometers housed in the laboratory. When necessary, complimentary powder diffraction and spectroscopic measurements will be performed. The high-pressure behavior will be analyzed with a variety of computational methods.

Requirements: Candidates should have a Ph.D. in crystallography, mineralogy, high-pressure chemistry, or a similar subject area involving the study of the solid-state and a proven record of research as evidenced by publications and conference contributions. Preference will be given to candidates with experience in diffraction and spectroscopic measurements of minerals and in computational methods for simulating the crystal structures of minerals. Previous experience in high-pressure diffraction is preferred.

Training: The post-doc will receive extensive training in the use of diamond-anvil pressure cells and the experimental methods for high-pressure diffraction.

Funding: The position is funded for 1 year through a research grant from the NSF division of Earth Sciences, and may be extended to a second year dependent upon the availability of funding and satisfactory performance. The expected start date is January 1st 2007, but is negotiable and can be earlier.

Further Information: Further questions about this position should be addressed to Ross Angel (rangel@vt.edu). General information about the Crystallography Laboratory can be found at <http://www.crystal.vt.edu/crystal/>.

Applications: Applications can only be accepted electronically at www.jobs.vt.edu; the posting number to reference is 060600. Interested candidates should submit a letter of interest, CV, and a list of three individuals who would be willing to write letters of reference should they be requested. Successful candidates invited for interviews will be required to have official transcripts. Review of applications will begin on September 1, 2006 and the position will remain open until filled. Virginia Tech has a strong commitment to the principle of diversity and, in that spirit, seeks a broad spectrum of candidates including women, minorities and people with disabilities. Individuals with disabilities desiring accommodations in the application process should notify Carolyn Williams at 540-231-6894, TTY: 1-800-828-1120.