



## **Postdoctoral Scientist Position Available in Hydrogeochemistry:**

### ***Reactive Transport Modeling, Landscape Evolution Observatory***

We seek a dynamic and motivated postdoctoral scientist to join an interdisciplinary team of Earth surface scientists conducting NSF-funded experiments at the Landscape Evolution Observatory (Biosphere 2, University of Arizona, Tucson, AZ). The Landscape Evolution Observatory (LEO) contains three, highly-instrumented, convergent hillslope models (each 30 x 12 m) comprising 1 m depth of granular basaltic porous media that will be subjected to controlled climatic forcing. The goal of this work is to quantify the structural 'soil' and hillslope evolution that accompanies coupled (bio)geochemical weathering and hydrologic flow path development. The system is unprecedented in its combination of environmental control and spatial scale (see <http://b2science.org/leo>).

Current NSF funding for LEO research supports efforts to unravel feedbacks between hydrologic flow and geochemical reactions in the weathering basalt by combining direct observations (collected densely in time and space) with reactive transport theory (simulations of fluid flow coupled to chemical reaction).

Qualifications for this position include a Ph.D. in geochemistry, soil science, hydrology, or a related field of environmental science, with a strong background in the fundamentals of both fluid flow and geochemical reactions in porous geomeia. Prior experience working with reactive transport modeling codes is preferred.

Interested candidates should submit an application including a letter of interest, current CV, and the names/email addresses of three professional references via the University of Arizona Human Resources portal: <http://uacareers.com/postings/5833>. For additional information, please feel free to contact Dr. Peter Troch, B2 Science Director, University of Arizona ([patroch@email.arizona.edu](mailto:patroch@email.arizona.edu)) or Dr. Jon Chorover, Head, Department of Soil, Water and Environmental Science ([chorover@email.arizona.edu](mailto:chorover@email.arizona.edu)).