**Positions Open: Postdocs in Critical Zone Science (Immediate openings available)**

We seek postdoctoral scholars to work at the Shale Hills Critical Zone Observatory (CZO). A PhD in a relevant area is required. The applicants should have interest in topics that will rely on one or more of the following areas:

1. Geomorphology: The mechanics of hillslope and channel sediment transport and

their role in the evolution of regolith (synthesis and modeling).

2. Geochemistry/soil science: Field/computational aspects of weathering, solute transport, or carbon cycling.

3. Ecohydrology/Physiological Ecology: Synthesis of ecohydrological measurements, including sapflow and whole-tree water use.

4. Hydropedology: Experimental and theoretical aspects of hydropedology and

hillslope/catchment hydrology, with an emphasis on synthesis and modeling of subsurface preferential flow networks and soil moisture patterns.

The focus of this multidisciplinary NSF-funded research effort is to quantitatively predict

the creation, evolution, and structure of regolith as a function of geochemical, hydrologic,

pedologic, biologic, and geomorphologic processes. All positions will be filled during 2012-2013. For more information about the Observatory contact: Professor Sue Brantley ([sxb7@psu.edu](mailto:sxb7@psu.edu)). Interested candidates should write to any faculty member at the CZO ([www.czo.psu.edu](http://www.czo.psu.edu)) – in the application please copy Susan Brantley ([sxb7@psu.edu](mailto:sxb7@psu.edu)) and Jennifer Williams (jzw126@psu.edu). In the application, please include the following:

1) cover letter describing experience and research interests

2) CV  
3) names of 3-4 references whom we may contact

Penn State is committed to affirmative action, equal opportunity, and the diversity of its workforce.