



***Two (2) Ph.D. Assistantships in Hydropedology/Soil Hydrology, Hillslope/Catchment Hydrology, and/or Stable Isotope Hydrology at Penn State, Starting in Fall 2008***

Two (2) highly-motivated students are sought to pursue a Ph.D. in hydropedology/soil hydrology, hillslope/catchment hydrology, and/or isotope hydrology, with an emphasis on the mapping, monitoring, and modeling (3M) of subsurface preferential flow networks and soil moisture spatial-temporal patterns across scales using an integrated approach of soil-landscape modeling, advanced hydrometry, hydrogeophysical investigations, and tracer studies. The students will participate in a large interdisciplinary project funded by the National Science Foundation, which will establish one of the first National Critical Zone Observatories in central Pennsylvania (the Shale Hills Observatory). The project will build upon an extensive existing database and utilize the most cutting-edge and innovative approaches to quantify and predict landscape-soil-hydrology relationships across space and time. Applicants must have a strong interest in fundamental process-oriented research, enjoy field data collections using various sensors and tracers, and be skillful in quantitative modeling. Applicants should have adequate training and/or strong interest in soil science (particularly soil physics/hydrology and pedology), or hydrology (especially hillslope and watershed hydrology), or geosciences (including geophysics, geomorphology and hydrogeochemistry), or a related discipline. Demonstrated excellence in technical, oral, written, and interpersonal communication skills is expected.

Consideration of candidates will start immediately and will continue until qualified candidates are appointed. Assistantships are to be started in Fall 2008. Besides a competitive stipend, both tuition waiver and health insurance are included in the offer. If interested, please send a letter of application, a resume, a copy of academic transcripts, and names and contact addresses of three references to Dr. Henry Lin at [henrylin@psu.edu](mailto:henrylin@psu.edu), Department of Crop and Soil Sciences, 116 ASI Building, The Pennsylvania State University, University Park, PA 16802. For more information, please visit: <http://hydropedology.psu.edu/>.