Postdoctoral Researcher Opening: Numerical modeling of near-surface hydrology and chemical weathering. We seek a postdoctoral researcher with experience in object-oriented programming (C++), numerical methods (including the use of available scientific libraries such as GSL), and programming with the Message Passing Interface (MPI). The selected candidate will work with geomorphologists, biologists, and soil scientists to implement a numerical model of weathering-zone and soil development driven by near-surface hydrology, rules that determine rates of mass transfer between the aqueous and mineral phases, and geomorphic transport of materials near the surface. The postdoctoral researcher will work with team scientists to simulate a well-characterized climo-chrono-sequence in Hawaii, and to use the calibrated model to examine the role that landscape-forming processes may play in moderating conversion of rock to soil and saprolite. Position duration is one year, with possibility of renewal and extension based on performance and funding. For more information or to apply, please (e)mail a CV, statement of interest, and relevant transcripts (with appropriate coursework and/or sample code) to:

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Postdoctoral Researcher Opening: Geomorphology/Geochemistry. We seek a postdoctoral researcher to help develop hybrid geochemical/pedological models that identify and predict the environmental controls on pedogenic thresholds across space and time. The modeling effort is designed to operate at an intermediate scale between that described by reactive transport codes and by functional models of pedogenesis in order to allow us to address landscape and ecosystem scale questions related to rock weathering, availability of nutrients and carbon sequestration. The postdoctoral researcher will join researchers at UC Santa Barbara, University of Arizona and Stanford University in predicting the biogeochemical behavior of soils forming in different climates and lithologies in Hawaii and New Zealand. We require expertise in one or more of the following areas: soil chemistry, geochemical modeling, pedology, hydrochemistry. Please (e)mail a statement of interest and CV to:

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