Postdoctoral Researcher Available

Vadose Zone Flow and Contaminant Transport Modeling
Department of Land, Air and Water Resources
University of California, Davis

A position is available for a postdoctoral researcher interested in pursuing research in soil / unsaturated zone contaminant hydrology within agricultural landscapes. We are seeking modeler with a strong background in modeling variably unsaturated flow and transport processes at the field and regional scale and an interest in upscaling of flow and transport processes in the unsaturated zone. The successful candidate will be part of a research team that links field and laboratory research with various numerical modeling tools within an integrated hydrologic framework at the groundwater-agriculture interface. The project work offers the possibility to work on upscaling, homogenization, and/or non-Fickian transport issues related to variably in saturated zone nitrate, salt, and pesticide transport. Deliverables will support ongoing implementation of groundwater management and protection efforts in irrigated regions.

Qualifications: The candidate must have strong skills in computational modeling of environmental systems (preferably variably saturated flow and transport systems), and must have experience in programming with Matlab, Octave, or similar and with HYDRUS or other unsaturated zone flow and transport modeling codes. Preferably, the candidate is also familiar with GIS (ArcGIS) and data management software (e.g., in MS Excel, MS Access). Interest in geochemistry and water quality is a definite plus. We are looking for someone that enjoys the responsibility, independence, and leadership needed in working with an active research team. The successful candidate will be part of a broader effort to understand the interaction between California’s agricultural landscape and groundwater, and will actively engage in the group’s data collection, data processing, and model application efforts to ensure integration of various modeling aspects. The successful candidate will be responsible for meeting project deliverables and participates in public outreach events. Excellent writing skills are expected.

Review of applications will begin June 30, 2015. Recruitment will remain open until filled. Interested applicants are required to submit 1) a cover letter, 2) resume or curriculum vitae, and 3) a list of three references with contact information including mailing address, phone number, and email address.

Salary is based on the University of California Academic Salary Scale, in accordance with current Postdoctoral Scholar Salary scale.

Interested applicants should send a resume and names and email addresses and phone numbers of at least two references to: Dr. Thomas Harter, Department of Land, Air, and Water Resources; University of California, Davis, CA 95616-8628, e-mail: thharter@ucdavis.edu.

For additional information see the following websites:
http://casoilresource.lawr.ucdavis.edu/
http://groundwater.ucdavis.edu