

### **Postdoctoral Researcher Position in Integrated Watershed Modeling**

The Department of Environmental Sciences at the University of California Riverside (UCR) seeks to hire a postdoctoral researcher. The selected candidate will work closely with a team of scientists from UCR and the USDA on the development of a watershed model that couples existing 1D or 2D versions of surface water (KINEROS2), vadose zone (HYDRUS 1D), and groundwater (MODFLOW) models that are open source. The specific objectives of the project include developing a computationally efficient watershed model to simulate groundwater-surface interactions, erosion, reactive solute transport, and preferential flow and transport processes. This research position will provide an exceptional professional development opportunity in a highly collaborative, multidisciplinary environment.

### **Qualifications:**

The successful candidate should hold a Ph.D. in Hydrology, Civil and Environmental Engineering or a related field with a specialization in physical hydrology or hydrogeology. Candidates must have received a PhD within the past five years from an accredited college or university.

### **Skills:**

The ideal candidate will have:

- Strong programming skills in Fortran, Python, and/or C++;
- Experience using HYDRUS, KINEROS2, MODFLOW, and MATLAB;
- Experience with high performance and parallel computing;
- Demonstrated record of high-quality publications;
- Experience working in a collaborative research environment

### **Application contents:**

- Cover letter describing the applicant's research experiences and interests
- Curriculum vitae
- Names, addresses, email, and phone number for 3 references

### **Contact:**

Applications or informal inquiries can be sent to Drs. Jirka Simunek ([jsimunek@ucr.edu](mailto:jsimunek@ucr.edu)), Hoori Ajami ([hoori.ajami@ucr.edu](mailto:hoori.ajami@ucr.edu)), Scott Bradford ([Scott.Bradford@usda.gov](mailto:Scott.Bradford@usda.gov)), and Menberu Meles ([Menberu.Meles@usda.gov](mailto:Menberu.Meles@usda.gov)). The initial appointment will be for one year with the possibility of annual renewal based on performance and the availability of funds. Applications will be accepted until the position is filled.

The University of California is an Equal Opportunity / Affirmative Action Employer with a strong institutional commitment to the achievement of excellence and diversity among its faculty and staff. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability, protected veteran status, or any other characteristic protected by law.