

Postdoc position in estuary groundwater-surface water exchange-UMass Lowell

The Department of Environmental, Earth, and Atmospheric Sciences at the University of Massachusetts Lowell, USA has an opening for a postdoctoral scientist to work on terrestrial and coastal hydrogeology, beginning Fall 2022. The project is funded by a National Science Foundation grant and focuses on groundwater-surface water interactions along the land-sea margin in the Chesapeake, Delaware, and Merrimack River estuaries. The postdoctoral scientist will have opportunities to work with an interdisciplinary team of researchers and stakeholders from the Chesapeake Bay Program, Delaware River Basin Commission, and Woods Hole Oceanographic Institution to model groundwater-surface water exchange in the three study estuaries. The position will also provide opportunities in implementing an outdoor hydrogeology instructional lab for students and groundwater professionals, as well as opportunities in mentoring high school, undergraduate, and graduate student researchers. The research may include limited field data collection.

Minimum Qualifications:

A PhD in Hydrogeology, Hydrology, Geoscience or related field is required at the time of appointment. The position requires demonstrated written and verbal communication skills and experience leading peer-reviewed scientific publications.

Preferred Qualifications.:

Expertise in hydrogeology, numerical groundwater flow and solute transport modeling, and scientific programming (e.g. MATLAB, Python). The candidate should have experience working with model input files in a programmatic environment, and experience synthesizing large model outputs. Additional candidate strengths include experience in cluster computing, reactive transport modeling, and variable-density flow.

Location:

UMass Lowell is located in Lowell, Massachusetts, USA and is approximately 45 minutes from Boston, 60 minutes from Massachusetts beaches, and 1.5 hours from the White Mountains in New England.

To Apply:

Interested candidates are encouraged to contact Dr. James Heiss (james_heiss@uml.edu) for additional information. Please attach a CV, unofficial transcripts, and contact information of two references. The position is for 2 years. Review of applications will begin immediately and the position will remain open until filled.