Postdoctoral Research Opportunity
Arctic and Temperate Watershed Biogeochemistry
Michigan State University

We seek a postdoctoral associate to lead data analysis and modelling efforts for ongoing watershed biogeochemistry and hydrology projects in the Watershed Science & Hydroecology Lab at Michigan State University (MSU). The postdoc will lead efforts to analyze and model solute flux patterns across Arctic and Temperate watersheds using large extant data sets and new high-frequency data from stream sensor systems. The overarching research goal is to quantify controls on dissolved organic matter and nutrient production, processing, and transport through freshwater ecosystems, and to assess how these controls are being altered by regional and global changes. The postdoc will work with a rapidly growing multidisciplinary team examining the influence of changes in climate and land use on water resources and watershed nutrient and pathogen transport. MSU is a large and vibrant community for water research, and this position is only one of several watershed science postdoctoral associate positions in our department.

The postdoc will be actively mentored to achieve their professional goals, including individualized mentoring plans focused on technical skills training, professional networking, establishing interdisciplinary collaborations, mentoring students, and eventual job placement.

The position requires a Ph.D. in ecosystem ecology, biogeochemistry, hydrology, environmental engineering, or a related field by the start date of employment. Preferred research skills and interests include demonstrated knowledge of catchment biogeochemistry, mechanistic modeling, geospatial analysis, machine learning, statistical modeling, and time series analysis. Strong computer programming skills (especially MATLAB, Python, and/or R) are highly desirable. A record of publications and knowledge of biogeochemistry and catchment science is desired. We will begin reviewing applications on 15 June 2017, and the search will remain open until a suitable candidate is found. Start date is flexible in 2017, but preferably in Summer/Fall 2017. For more information on the research group, please visit www.msu.edu/~jpz. Direct questions about the position to Dr. Jay Zarnetske (jpz@msu.edu). To apply, please send letter of application detailing research interest and experiences, curriculum vitae, and names of 3 references (with telephone numbers and email addresses) to Dr. Jay Zarnetske (jpz@msu.edu) and cc all correspondences to geosci@msu.edu.

Michigan State University is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability or protected veteran status or any other characteristic protected by law and University policy.