

JOSEPH W. JONES ECOLOGICAL RESEARCH CENTER

ICHAUWAY, INC.

WATERSHED HYDROLOGY POSTDOCTORAL ASSOCIATE

The Joseph W. Jones Ecological Research Center at Ichauway, GA invites applications for a Postdoctoral Associate within the Center's water resources research program. The candidate should have a Ph.D., or have completed all necessary degree requirements prior to employment, in the subject area of hydrology or a closely-related field. Strong candidates will have experience linking watershed hydrology with related fields such as agricultural engineering, ecohydrology, freshwater aquatic ecology, or biogeochemical cycling through data analysis and modeling. Applicants should possess a demonstrated understanding of watershed processes, have strong quantitative skills, and be able to integrate land management and climatological data with hydrologic processes.

The selected individual will work with the water resources staff on several projects related to the fluxes of water and nutrients in the lower Flint River Basin. The Flint River Basin is characterized by a dynamic matrix of land use and land cover and a complex land-use history; but, the basin is also rich in long-term land cover and hydrologic data. High priority projects include: 1) modeling the effect of land cover change and forest restoration on water yield in the Flint River watershed, and 2) quantifying the impact of agricultural water withdrawal on regional water yield. These projects will center on the application of landscape-level hydrologic models such as SWAT (Soil and Water Assessment Tool), PRMS (Precipitation Runoff Modeling System), the USGS MODFLOW groundwater model, and/or others. Additional projects may be developed depending on the interests and skills of the applicant and alignment with goals of the water resources staff. The successful applicant will have extensive knowledge of watershed function, expertise in geographic information systems, exceptional quantitative skills, and an appreciation for the application of land management for solving water resource issues. Publication of findings in peer-reviewed literature and presentation at state, regional, and national meetings is expected and supported. Distribution of results to land managers and policy makers could potentially impact water management across the southeastern U.S.

This position is for a term of two years with the possibility of extension. Compensation includes 12 months of salary, excellent health care benefits and a 403b retirement program. Applicants must be authorized to work in the United States.

The Joseph W. Jones Ecological Research Center is an independent institution supported by the Robert W. Woodruff Foundation. The mission of the Jones Center is to understand, to demonstrate, and to promote excellence in natural resource management and conservation on the landscape of the southeastern Coastal Plain of the United States. The Center is located at Ichauway, a 29,000-acre ecological reserve in southwestern Georgia. It has over 17,000 acres of mature, fire-maintained longleaf pine forests, eighteen miles of the Ichawaynochaway Creek, and thirteen miles of frontage along the Flint River. The water resources program was established in 1993 with the founding of the Center and has been an integral part of the Center Mission with future opportunities for growth coincident with the increase in regional and global water issues. The Center cooperates with several regional research universities, as well as numerous state and federal natural resource agencies, and serves as a National Ecological Observatory Network (NEON) site. More information can be found at www.jonesctr.org.

Review of applications will begin immediately and continue until the position is filled. Send letter of application, curriculum vitae, and three references with contact information by email to: jobs@jonesctr.org, **Subject line: WATERSHED POSTDOCTORAL ASSOCIATE**. For specific questions contact **Dr. Steven Brantley, Ecohydrologist**, or **Dr. Steve Golladay, Aquatic Biologist**, (229)734-4706 or by email at sbrantle@jonesctr.org or sgollada@jonesctr.org respectively. The Joseph W. Jones Ecological Research Center is an Equal Opportunity/Affirmative Action/E-Verify employer.