WATERSHED/FOREST HYDROLOGY POSTDOCTORAL ASSOCIATE

The Jones Center at Ichauway invites applications for a Postdoctoral Associate in watershed modeling. The candidate should have a Ph.D., or have completed all necessary degree requirements prior to employment, in the subject area of hydrology, forest hydrology, ecosystem ecology, or a closely-related field. Applicants should possess a demonstrated understanding of watershed function, have strong quantitative and computing skills, and be able to integrate land/forest management and climatological data with hydrologic data. 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.

The selected individual will work with forestry and water resources staff at the Jones Center at Ichauway on an NRCS-funded project to assess the effects of forest land management on water yield in southeastern watersheds. The southeastern U.S. is characterized by abundant rainfall, but increasing demands on water resources have made periods of water scarcity more common. The project includes two initial phases: 1) modeling the effect of longleaf pine forest restoration on water yield across a geographic gradient, and 2) quantifying the impact of specific forest management practices on water yield. Both phases will center on the application of landscape-level hydrologic models such as SWAT (Soil and Water Assessment Tool), MODFLOW, and/or others; and refinement of model inputs with new field data and analyses. Opportunities for additional projects may be developed depending on the interests and skills of the applicant and alignment with goals of Jones Center staff. 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 has an anticipated start date of January 2021 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. Remote work and/or temporary on-site housing may be considered on a case-by-case basis. Applicants must be authorized to work in the United States.

The Jones Center at Ichauway is an independent research, education, and conservation institution supported by the Robert W. Woodruff Foundation. The mission of the Jones Center is to understand, demonstrate, and promote excellence in natural resource management and conservation on the landscape of the southeastern Coastal Plain of the United States. The Center sits on 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 Ichawaynokchaway Creek, and thirteen miles of frontage along the Flint River. The forest ecology and water resources research programs were established in 1993 with the founding of the Center and have been an integral part of the Center Mission with future opportunities for growth coincident with the increase in regional and global environmental 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. Full consideration will be given to applications received by Friday, October 2, 2020. Preference will be given to candidates who relocate, but remote work may also be considered for certain candidates. Send letter of application, curriculum vitae, and contact information for three references by email to: jobs@jonesctr.org, Subject line: WATERSHED POSTDOCTORAL ASSOCIATE. For specific questions contact Dr. Jeffery Cannon, Landscape Ecologist, or Dr. Steven Brantley, Ecohydrologist, at (229) 734-4706 or by email at jeffery.cannon@jonesctr.org or steven.brantley@jonesctr.org, respectively. The Jones Center is an Equal Opportunity/Affirmative Action/E-Verify employer.

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