Postdoctoral Research Associate, Penn State University

Linking the effects of land management activities on river ecohydrology and hydrodynamics to fish population dynamics

We seek a postdoctoral researcher to be part of a dynamic and interdisciplinary team that is using an integrated approach to understand how landscape-scale processes and land management activities are affecting instream habitat, fish health, and fish population dynamics. The successful candidate will lead the development of a modeling framework that links the effects land management activities (e.g., Best Management Practices) on river ecohydrology (chemical contaminant concentrations, river discharge, etc.) and hydrodynamics (flow velocity, etc.) to population dynamics of an ecologically and socioeconomically important fish species, the smallmouth bass. This research is focused on the Chesapeake Bay Watershed, with a goal of providing stakeholders an understanding of the co-benefits of implementing different conservation practices that are primarily designed to reduce sediment and nutrient loads into streams and rivers.

The successful candidate will be part of an interdisciplinary group of U.S. Geological Survey scientists, including ecologists, chemists, hydrologists and fish health researchers. This full-time position is located at The Pennsylvania State University, State College, PA.

Appointment is offered as a one-year term with the possibility for renewal up to 5 years. All renewals are contingent upon available funding, satisfactory performance on the part of the postdoctoral scholar, and adherence to all University policies and professional standards of conduct.

Salary: $60,000/year plus excellent benefits.

Closing date: Open until filled.

Qualifications: Competitive candidates should be highly motivated and possess a PhD in ecology, fisheries, environmental health, statistics, or a related discipline with a strong quantitative emphasis. Good communication skills and the ability to work both independently and collaboratively in a team environment are essential. Please provide (1) a cover letter detailing how your qualifications and experience have prepared you for this position; (2) a CV; (3) names and contact information of three professional references; and (4) two relevant publications. Please submit these materials to Dr. Tyler Wagner via email (txw19@psu.edu) as a single merged pdf.

For more information, contact Dr. Tyler Wagner at txw19@psu.edu.