

**Post Doctoral Research Associate in the Hydroecology of Desert Streams**  
**School of Aquatic and Fishery Science**  
**University of Washington**  
9/16/2009

**Responsibilities:** We seek a highly motivated postdoctoral researcher for a collaborative project that aims to understand how flow intermittence and landscape connectivity govern the spatial and temporal dynamics of amphibians and aquatic invertebrates (insects and crayfish) in intermittent and ephemeral streams of southern Arizona. Specifically, this new project is examining how hydrology, landscape connectivity and other riverine characteristics influence the demography (e.g., distribution, abundance) and population genetics (e.g. gene flow, structure, diversity) of amphibians and aquatic invertebrates, and forecasts the potential impacts of climate change and water use.

*The selected applicant will perform the following tasks:*

1. Develop spatially-explicit hydrologic (rainfall-runoff) models predicting short- and long-term flow regimes for intermittent and ephemeral streams in Arizona
2. Conduct geospatial analyses and apply GIS tools to support various needs of the project
3. Coordinate a multi-team field research program that focuses on streamflow monitoring, biological surveys and habitat assessments
4. Perform essential administrative duties associated with the project, including financial reporting, progress reports and project collaboration
5. Actively publish in scientific journals, present research at society meetings, and interact regularly with multiple stakeholder groups

The successful applicant will be advised by **Dr. Julian Olden (School of Aquatic and Fishery Sciences, University of Washington)**, and will work closely with researchers from Oregon State University, State University of New York, and partners in Arizona including the Department of Defense, AZ Game and Fish Department, and The Nature Conservancy.

**Qualifications:** PhD in ecology, zoology, hydrology or related field. Priority will be given to applicants with previous experience working in desert ecosystems, particularly with regard to hydrologic modeling, stream ecology, and/or geospatial modeling. Applicants must exhibit strong quantitative and communication skills, proven expertise with GIS, demonstrated ability to publish in peer-reviewed journals, and a proven record of leadership and ability to coordinate large research programs.

**Location:** The position will be located within the School of Aquatic and Fishery Science (SAFS) at the University of Washington, Seattle, Washington. SAFS includes 30 faculty, 125 graduate and 100 undergraduate students, and about 90 administrative and research staff. The breadth and scope of SAFS encompasses programs for undergraduate and graduate teaching, research and service in basic and applied aquatic sciences with an emphasis on aquatic resource conservation. Faculty, staff and students have access to myriad aquatic habitats and rich biological resources, and are involved in interdisciplinary partnerships with other academic programs, as well as

public and private organizations and environmental and regulatory agencies. Seattle is a vibrant and progressive city with ample opportunities for recreation and city-living.

**Salary:** \$50,400 annually (\$4,200/month) plus benefits; funded for 2-4 years contingent on performance and annual allocations.

**Start date:** March 2010

**Contact:** To apply email a cover letter that addresses your interest, experience (in response to the requirements stated above) and future career goals, curriculum vitae, most relevant (3) publications (PDF), and contact information for at least three references to: Dr. Julian Olden, School of Aquatic and Fishery Sciences, University of Washington at [olden@uw.edu](mailto:olden@uw.edu). Screening of applicants will occur immediately and will continue until a suitable candidate is found. UW is an equal opportunity employer and actively seeks diversity among its employees (<http://www.washington.edu/>).

**The Olden Research Lab contains an extremely cohesive mix of graduate students, post-docs and staff. We play hard and work even harder ... and are looking for same in the applicant. More information:** <http://www.fish.washington.edu/research/oldenlab/>.