

Post-doctoral opportunity: Restoring natural flow regimes in the Red River

We seek a post-doctoral researcher to develop conservation science, tools and strategies for restoring natural flow regimes in the Red River. The postdoc will join an interdisciplinary team developing landscape-scale models for identifying the most cost-effective water conservation projects. We aim to provide guidance to agency and NGO partners throughout the basin, but also to advance conservation science in freshwater ecosystems.

The post-doc will 1) lead the development of key spatial data sets of stream flows, water usage and rights in the Red River, 2) create a water balance model tied to the water use geodatabase in Riverware, and 3) collaborate on the development of optimization algorithms to identify the most cost-effective water conservation projects. The project will leverage existing sophisticated climate and hydrologic models for the Red River basin developed by colleagues at the South Central Climate Science Center.

The project is funded by the Great Plains Landscape Conservation Cooperative and will involve building partnerships with agencies and NGOs throughout the Red River basin. Applicants must have a genuine interest in stakeholder outreach and in the development of conservation science that will support the needs of GPLCC partners and water managers. Candidates with experience in relational database design, computer programming, water rights, and with the Riverware software suite are especially encouraged to apply, though all these are not necessary qualifications. We welcome applications from candidates with backgrounds in sustainability science, geography, biology, conservation, water resources, hydrology, hydro-informatics or computer science.

The post-doc will be based in the Dept. of Geography and Environmental Sustainability at the University of Oklahoma and will be jointly advised by Drs. Tom Neeson and Hernan Moreno. The position will begin during fall 2016, preferably by Nov. 1st. Funding is available for 24 months, depending upon satisfactory performance. A competitive post-doc salary will be provided, including health benefits.

To apply, please submit a single PDF containing a letter of application, CV, three reprints, and contact information for three references to Tom Neeson (neeson@ou.edu) and Hernan Moreno (moreno@ou.edu). Review of applications will begin on Sept 15, 2016 and will continue until the position is filled.