

POSITION SUMMARY – RIVER SCIENTIST / FLUVIAL GEOMORPHOLOGIST

Apply your research skills to improve large-scale habitat management for endangered species. Enter a unique working environment where the energetic culture of a small, fast-paced, interdisciplinary research group intersects with one of the most successful collaborative endangered species recovery programs in the nation. Connect cutting-edge science to decision-makers responsible for endangered species management and restoration program governance. Invest your time in making a difference.

Headwaters Corporation is seeking an experienced river scientist (fluvial geomorphologist) to join a team that conducts interdisciplinary research with a focus on implementation of the [Platte River Recovery Implementation Program](#) (PRRIP). Headwaters serves in a unique role as a private consulting firm that carries out the day-to-day functions of PRRIP implementation by providing the Executive Director and all staff. This includes PRRIP administration, managing the PRRIP's land and water resources, and implementation of a robust science program that uses adaptive management and other science tools to inform the use of those resources. The Headwaters technical team includes biologists, ecologists, an ecological statistician, hydraulic engineers, water resources planners, civil and biosystems engineers, and a science policy advisor that specializes in adaptive management and restoration program governance. *Candidates must have the independent drive to tackle complex, multidisciplinary problems and the desire to work for a small firm.*

This position will be focused on implementation of monitoring and research including the relationship between channel morphology and riparian vegetation, evaluation sediment augmentation implementation in degraded sand-bed rivers, and design and implementation of research to assess the ability to create and maintain endangered species habitat using large-scale flow releases.

Major duties include, but are not limited to:

- Field and remote data collection, management, analysis, and evaluation.
- Interpretation and synthesis of topographic, hydrologic, vegetation, spatial, and environmental data.
- Development and interpretation of empirical and numerical models.
- Preparing technical reports and scientific manuscripts in conjunction with other staff.

Highly Desirable Characteristics:

- Broad-based background in watershed processes, (river and groundwater hydraulics, geomorphology, vegetation community dynamics, and river/wetland ecology)
- Knowledge of and facility with statistical analysis techniques, and spatial analysis using GIS. Software experience may include ArcGIS, AutoCAD, HEC-RAS or other hydraulic models, coding for data management and analysis efficiency (Python, ArcPy, SQL).
- Experience with aquatic restoration/management projects and working at the intersection of river process/function and species ecology
- Experience designing and implementing field work on highly dynamic river/wetland systems
- Experience that includes establishing goals and objectives and developing and managing a budget to achieve goals and objectives
- Mature judgment, initiative, imagination, resourcefulness, energy, tact, and integrity

LOCATION

This is an in-office position that will be housed in Lakewood, CO. Headwaters' main office is located in Kearney, NE, near the midpoint of the PRRIP Associated Habitat Reach (AHR). This is the ninety-mile reach of the central Platte extending from Lexington, NE to Chapman, NE where most of the PRRIP work

occurs. Headwaters' science staff are located in Kearney and water/engineering staff are based in Headwaters' Lakewood, CO office. Periodic travel for meetings, and conferences (3 - 5 days a month) will also be necessary. This position is not eligible for full-time remote work.

EDUCATION

B.S. in Geology, Geosciences, Geomorphology, Riparian Ecology or related technical field required. Preference for M.S. or Ph.D. and professional registrations (PE, PG, PH, CFM, PLS).

EXPERIENCE

Minimum of 3 years of progressively responsible professional experience.

BENEFITS

Headwaters Corporation will offer a competitive salary commensurate with experience and qualifications relevant to this position. Starting range of \$75,000-\$95,000/year.

Headwaters offers an excellent compensation and benefits package including medical, dental, and life insurance; a 401(K) plan; and paid vacation time and holidays. Headwaters Corporation is an Equal Opportunity Employer.

APPLICATION

Applications will be considered until the position is filled. Application materials should be addressed to:

Justin Brei
Water Resources & Engineering Manager
Headwaters Corporation
405 Urban St, Suite 401
Lakewood, CO 80228
(720) 524-6115

Please send a cover letter, resume, and three references in PDF format to: breij@headwaterscorp.com

OVERVIEW OF HEADWATERS CORPORATION

Headwaters Corporation is a natural resources management consulting firm that specializes in the review and implementation of large-scale endangered species recovery and river restoration programs; management of independent science review processes; planning, design, and implementation of river restoration and wetland mitigation projects; and application of a variety of areas of scientific expertise to project planning, design, and implementation. We have a small, highly qualified team comprised of leading river restoration program managers and adaptive management practitioners, experts in restoration program governance and function, river ecologists, western water resources experts, biologists, geomorphologists, water resources engineers, and land managers. With offices in Nebraska (Kearney) and Colorado (Lakewood), Headwaters Corporation provides a broad range of services to public and private clients. Visit our website at www.headwaterscorp.com for more information on our purpose, our people, and our work.