

POSITION SUMMARY – GIS ANALYST

Headwaters Corporation is a natural resources management consulting firm seeking a GIS Analyst to join our Lakewood, CO water resources team. Headwaters Corporation, headquartered in Kearney, NE, is a diverse, multidisciplinary team that includes biologists, statistical ecologists, geomorphologists, water resources engineers, biosystems engineers, economists, and science policy and governance experts. *Candidates must have the drive to tackle complex, multidisciplinary problems and the desire to work for a small firm.*

This position will be assisting with all aspects of remote sensing analysis and geospatial data processing and presentation for Headwaters. Projects include endangered species habitat use and availability analyses, remote sensing monitoring of vegetation and geomorphology of the central Platte River, time-lapse photo analysis, drone photography acquisition and processing, and other research for the Platte River Recovery Implementation Program. There will also be opportunities to assist Headwaters with identifying, securing, and completing future projects related to large-scale restoration and adaptive management programs, river & wetland restoration, and water planning.

Major duties include, but are not limited to:

- Collaborate with project leaders on developing remote sensing data acquisition, processing, and evaluation methods.
- Review GIS data for completeness and accuracy.
- Create new and run existing scripts using python and R for processing of remote sensing data.
- Produce presentation quality maps.
- Maintain an extensive catalogue of remote sensing data such as ESRI shapefiles and geodatabases, aerial imagery, and LiDAR.
- Develop and maintain ArcGIS Online and StoryMaps to communicate project work.
- Field data collection using GPS devices and post processing of results.
- Import and export field data from Trimble GPS products.
- Preparing technical reports and scientific manuscripts in conjunction with senior staff.
- Assist on proposals and scopes of work for existing and future projects.
- Follow Headwaters Corporation's administrative and financial policies and procedures as well as the methods and procedures specific to the work.

Minimum Qualifications

- Proficient with ESRI's GIS mapping software, particularly ArcGIS Desktop/Pro with Spatial and 3D Analyst.
- Demonstrated experience with Python and R for automating geoprocessing and data processing.
- Experience with acquisition of spatial data through resources such as USGS Earth Explorer, NRCS Geospatial Data Gateway, and others.

Highly Desirable Characteristics:

- Experience with other mapping software, particularly Trimble eCognition, ERDAS, and Google Earth.
- Working knowledge of AutoCAD Civil3D.
- FAA Remote Pilot Certificate and experience operating small drones for spatial data acquisition.
- GISP certification.
- Background in ecology, biology, range management, or other natural resource management area with knowledge of landscape ecology, vegetation, and field data collection methods.
- Mature judgment, initiative, imagination, resourcefulness, energy, tact, and integrity.

This position is located with the Headwaters engineering staff in the Lakewood, CO office. Headwaters' science, land, and administrative staff are located in Kearney, NE. Periodic in-state and out-of-state travel for fieldwork, meetings, and conferences (3 - 5 days a month) will also be required.

EDUCATION

B.S./B.A. required (M.S. preferred) in GIS, Geography, Geospatial Sciences, or natural resources fields with related coursework in GIS, python, and remote sensing.

EXPERIENCE

Experience preferred, but not required for bachelor's degree graduates. Strongly prefer candidates with demonstrated experience with GIS project work and remote sensing applications.

SALARY

Headwaters Corporation will offer a competitive salary commensurate with experience and qualifications relevant to this position. Starting range of \$55,000-65,000/year.

BENEFITS

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

Application materials should be addressed to:

Bridget Barron, PhD
President and CEO
Headwaters Corporation
4111 4th Avenue, Suite 6
Kearney, NE 68845

Please send a cover letter, resume, and three references in PDF format to Bridget Barron at: barronb@headwaterscorp.com

OVERVIEW OF HEADWATERS CORPORATION

Headwaters Corporation has offices in Kearney, Nebraska, Lakewood, Colorado, and Ft. Collins, Colorado. Founded in 2007, Headwaters is a professional services firm that brings common-sense solutions and systems thinking to emergent, complex, and large-scale natural resource challenges. Headwaters specializes in adaptive management and the review and implementation of large-scale endangered species recovery and river/ecosystem restoration programs. We have a small, highly qualified, independent 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. Our team has many years of experience with river/ecosystem restoration and species recovery programs; utilizing decision analysis tools and linking science to decision-making; working with western rivers and water operations; and facilitating and leading large groups of multi-discipline stakeholders (including Tribes) on complex processes in river basins. To this end, the people of Headwaters are honest brokers working purposefully to tame wicked problems.

Visit our website at www.headwaterscorp.com for more information on our purpose, our people, and our work.