



# River Restoration Engineer

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## **Position Description:**

River Design Group, Inc. (RDG) is seeking a dependable and highly motivated River Restoration Engineer to join us in our Whitefish, Montana office. RDG is an interdisciplinary water resources consulting firm that focuses on the analysis, design and implementation of river, floodplain, and wetland restoration projects throughout the Northwest U.S. The ideal candidate will possess a strong technical skill set in the field of water resources engineering with a demonstrated background in the application of engineering methods to river, wetland and floodplain restoration projects.

Please visit our website at [www.riverdesigngroup.com](http://www.riverdesigngroup.com) for more information about the firm's professional services and workplace culture.

## **Minimum Qualifications**

- B.S. degree in Civil/ Water Resources Engineering
- E.I.T. registration
- Two to four years of related engineering experience. Education with direct, applied classwork in Engineering can be substituted for job experience.

## **Responsibilities**

- Complete field work in support of river morphology assessments, river/floodplain restoration design, and restoration project effectiveness monitoring including surveying, data collection and reconnaissance to document geomorphic conditions.
- Process field data and produce summary maps and reports.
- Analyze a diverse range of water resources data including: watersheds, floodplains, channels, reservoirs, and hydraulic structures using geospatial tools, numerical models, and applied statistics.
- Apply engineering principles, sound judgment, experience and innovation to accurately execute assigned technical tasks and prepare detailed supporting documentation.
- Participate in the design of river restoration and floodplain projects by working collaboratively with an interdisciplinary design team consisting of engineers, geomorphologists, ecologists, modelers and project managers.
- Develop AutoCAD Civil 3D plan set packages and assist engineers in design drafting and deliverables.
- Provide construction oversight for project implementation including survey staking, design layout, design compliance and correspondence with construction contractors.

## **Skill Requirements**

- Excellent oral communication, technical writing and problem-solving skills.
- Demonstrated proficiency in hydrologic, hydraulic, and statistical methods.
- Competency with hydraulic modeling software, including the USACE HEC suite.
- Excellent data management skills including fluency with Microsoft Excel and Access.
- Robust data processing skills including experience with MATLAB or equivalent.
- Experience with CAD/GIS software such as Autodesk Civil3D or ESRI ArcGIS.

### **Additional Qualifications**

- Knowledge of fluvial geomorphology, river mechanics, and sediment transport.
- Applied programming experience for data processing such as: Visual Basic, Python, or R.
- Experience with multi-dimensional riverine or CFD modeling software.
- Field surveying experience utilizing both GPS and total station techniques.
- Ability to travel out of town overnight and work in a wide range of field conditions.

This position is a full-time position with a typical 32 to 40-hour work week and hourly compensation. Pay will be established based on qualifications and experience. RDG is an equal opportunity employer and offers a competitive compensation package including employer-paid medical and dental insurance, a 401K retirement plan with match, paid time off, and paid holidays.

For consideration, please email a cover letter and resume to: [info@riverdesigngroup.com](mailto:info@riverdesigngroup.com).

Position posting date: **October 22, 2021**

Closing date: **December 6, 2021**

Anticipated starting date: **January 15, 2022**, negotiable.