



River Restoration Engineer

Position Description:

River Design Group, Inc. (RDG) is seeking a dependable and highly motivated River Restoration Engineer to join us in our Corvallis, Oregon 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 for more information about the firm's professional services and workplace culture.

Minimum Qualifications

- B.S. degree in Civil/Water Resources Engineering, or related discipline
- E.I.T. registration or ability to obtain.
- One to four years of related engineering experience. Education with direct, applied coursework can be substituted for job experience.
- Demonstrated enthusiasm and passion for making a difference in the natural world.

Responsibilities

- Participate in the design of river restoration and floodplain projects by working collaboratively with an interdisciplinary design team consisting of engineers, geomorphologists, fisheries biologists, and project managers.
- Perform field work in support of fish passage, river/floodplain restoration, and habitat enhancement projects. Field work will include surveying, field data collection, flow measurement, and reconnaissance.
- Process field data and produce summary maps and reports. Process survey data into digital terrain models (DTM) for use in restoration project design.
- Assist engineers with design drafting and preparation of construction drawings using Autodesk Civil3D software. Assist engineers with project design using Civil3D software including earthwork and grading calculations.
- Assist engineers and biologists with hydraulic analysis for assessment and project design.
- Assist engineers and project managers with the preparation of calculations, quantity estimation, design documentation and reports, and permit applications. Apply engineering principles, sound judgment, experience, and innovation to accurately execute assigned technical tasks and prepare detailed supporting documentation.
- Support construction oversight for project implementation including survey staking and design layout, design compliance and environmental compliance, and monitoring.

Skill Requirements

- Excellent oral and written communication skills, technical writing, and critical thinking skills.
- Experience with CAD/GIS software such as Autodesk Civil3D or ESRI ArcDesktop.
- Demonstrated proficiency in hydrologic, hydraulic, and statistical methods from prior work experience or coursework.

- Competency with hydraulic modeling software, including the USACE HEC suite.
- Excellent data management skills including fluency with Microsoft Excel and Access.
- Willingness and ability to travel for periods of 2-5 days and work in a wide range of field conditions. Travel requirements will vary seasonally, up to 25% of time during field season and up to 5-10% of time during remainder of year.
- Must possess valid state drivers license.

Additional Qualifications (Optional)

- Knowledge or familiarity with stream ecology, fluvial geomorphology, river mechanics, or 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.
- Experience with sUAS operation and data processing, possession of FAA Remote Pilot in Command License or ability to obtain license.

This position is a full-time position with a typical 40-hour work week and hourly compensation and flex time. Hybrid remote work schedule available after introductory and probation period. Pay will be established based on qualifications and experience and will be indexed against the most recent ASCE salary survey. 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.

Position posting date: **August 10, 2023**

Closing date: **September 15, 2023**

Anticipated starting date: **Negotiable**