PACIFIC WATERSHED ASSOCIATES INC. (PWA)

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Water Resources / Civil Engineer

PWA is seeking a Water Resources / Civil Engineer to serve as a member of our cross-disciplinary team performing environmental restoration and rural planning, design, and construction projects throughout northern and central California. Working in collaboration with an interdisciplinary team the Water Resources / Civil Engineer will develop, design, and oversee construction of stream habitat restoration, water resources, water quality, transportation, and rural development projects.

PWA is a full-service geologic and engineering consulting firm with offices in Humboldt and Sonoma Counties of northern California. PWA specializes in science-based management solutions for watershed, forest, riverine, and coastal habitats as well as rural development projects. PWA includes a staff of 25 full-time geologists, engineers, geomorphologists, hydrologists, stormwater specialists, watershed scientists, biologists, technicians, and associated support personnel. PWA is committed to providing and maintaining a professional organization and working environment for all our employees, as well as supporting individual professional development and work-life balance. We aim to continue to grow our established organization, and further develop our engineering capabilities, by working collaboratively with a common purpose and vision to provide the very best services to our clients and our community and to conduct progressive, environmentally beneficial projects.

Typical Projects Include:

- In-stream and off-channel fish habitat restoration and enhancement projects
- Large wood structures, roughened channels, stream simulation, and other fish passage designs
- Bridge, culvert, and other stream crossing designs for rural roads
- Hillslope, embankment, and stream channel stability assessment/designs and repairs
- Rural excavation and grading plans, erosion control plans, and site remediation designs
- Engineering soils reports and drainage plans
- Ponds, reservoirs, and water catchment facility design
- Low-impact development designs and stormwater engineering

Key Responsibilities:

- Design water resource engineering projects to enhance and restore anadromous fish habitat
- Site assessments, topographic surveying, and in-field feasibility review
- Develop designs in AutoCAD Civil 3D per applicable standards
- Perform and assist in soil and groundwater investigations
- Create/review hydraulic models, analysis, and engineering computations
- Calculation of construction quantities, cost estimates, and specifications
- Author/review technical documents, including basis of design reports
- Evaluate designs, plans, specifications, and estimates for completeness and accuracy
- Engineering project management, tracking, and budgeting
- Construction management and project inspection
- Help prepare applications/proposals for funding, permits, and other planning documents
- Assist Project Managers and staff scientists requiring civil & environmental engineering services
**Required Qualifications**
- 1-3 years experience as a water resources engineer
- BS or MS in engineering
- Demonstrated passion for watershed sciences, fisheries, and ecological restoration via job experience, project work, or recreational interests

**Required Skills, Abilities, and Experience:**
- Experience with AutoCAD Civil 3D or other design software
- Hydraulic modeling of channels and floodplains using 1-D HEC-RAS or equivalent software
- Proficient in Microsoft Office Suite (Word, Excel, PowerPoint)
- High level of critical thinking and organizational skills
- Strong verbal and written communicator
- Ability to work independently and collaboratively; positive attitude/team player
- Ability to occasionally work and hike on steep, uneven terrain in inclement weather

**Preferred Skills and Abilities:**
- 2-D hydraulic modeling
- Design experience in instream and off-channel fish habitat, particularly for Threatened and Endangered species recovery
- Preparation of design reports, construction plans, and contract specifications
- Inspection/oversight experience with stormwater, grading, or instream construction projects
- Process-based river and stream channel design and analysis
- Biotechnical stream bank stabilization and restoration techniques
- Large wood habitat and stability analysis for improving stream channel habitat
- Total station surveying for topography, hydraulic modeling, and AutoCAD project designs
- Management and oversight of small to large-scale projects including scope development, budgeting, timeline, and task management
- Stormwater projects, grading, and construction inspection and oversight

**Position Details:**
- Full-time hourly position
- Position available at the McKinleyville, CA office, will consider the position at the Petaluma, CA office
- Out-of-town work intermittently required (primarily northern and central California)
- Benefits include paid time off, 401(k), term life insurance, and health, vision, and dental insurance
- Wage is competitive and commensurate with qualifications and experience

**How to Apply:**
- Please send a cover letter, including a description of work experience, requested salary range, and examples of past work (e.g., design drawings), and resume to: careers@pacificwatershed.com
- Write “Water Resources / Civil Engineer” in the subject line
- Resumes without a cover letter will not be considered
- Position will remain open until filled

PWA is an equal-opportunity employer. See our website for more information about the organization: www.pacificwatershed.com.