

Senior Civil Engineer

Formation Environmental, is a fast-growing environmental consulting firm with offices in Sacramento, CA, Imperial Valley, CA, Boulder, CO, and Portland, OR. We specialize in solving water resources, environmental, utility, engineering and agricultural challenges using multi-disciplinary teams that apply state-of-the-art techniques to efficiently attain each client's unique technical, regulatory, and financial objectives. Our clients include entities in the natural-resource, water resource, industrial, transportation, energy, and agricultural sectors.

Job description

Formation is seeking a civil engineer to join our team in Sacramento, California. We leverage remote sensing, GIS, engineering, and advanced modeling tools to tackle our clients' challenges in agriculture, air quality, soil remediation, groundwater quality, dust control, water quality and crop/nutrient management. If you are passionate about design, analysis, and multi-disciplinary creative solutions and have extensive experience solving client challenges, we'd like to meet you.

Required Qualifications

- Degree in Civil, Water Resource, or Agricultural Engineering (or related engineering field)
- California PE certification in civil engineering
- Demonstrated experience as engineer in responsible charge of design work, including design development, signing, and sealing of contract documents (including, but not limited to, drawings, specifications, calculations, reports, and other design-related documents)
- Experience completing reports, and documents for multiple projects of various types
- 10+ years of hands-on technical experience as a civil engineer working in the American West.

Required Technical Experience:

- Irrigation conveyance design that may include intake/control/diversion structures, pump stations, siphons, open channels, and piped transmission/distribution systems. Familiarity with ongoing operations and maintenance requirements, including lifecycle cost estimation, a plus.
- Grading analysis, site access and earthwork design
- Experience with sustainable groundwater resource development, including production well design, development, and construction to support agricultural operations
- Comfortable both directing as well as performing the following: development of a schematic design and performing appropriate analysis to develop a final design including construction drawing and specification development, schedule development, performing material take-offs, cost estimation development as well as drafting in AutoCAD Civil 3D.

Additional Desired Technical Experience:

- Basic agricultural irrigation design that may include border-check, drip, center pivot, and other common irrigation practices
- Irrigation scheduling and automation tools
- Surface and subsurface drainage design including design of open channels, culverts, erosion and sediment control features, channel stabilization, and stormwater detention facilities as well as preparation of drainage plans and reports

The ideal candidate will also need to demonstrate a strong aptitude in the following areas:

- Demonstrated strong writing skills and creative/innovative problem-solving skills
- Knowledge of applicable environmental regulations and permitting processes as well as experience in complying with such regulations
- Independent implementation of plans to meet project objectives under direction from Project Managers
- Ability to contribute to team-oriented, multi-disciplined project delivery and problem solving (both in the office and field)
- Effective organization and excellent written/verbal communication skills
- Ability to handle multiple project assignments while maintaining flexibility to meet deadlines
- Strong commitment to scientific/engineering integrity, quality and following established quality assurance and quality control protocols
- Strong commitment to safety and following established health and safety protocols.

In accordance with the California Equal Pay Transparency Rules, Formation offers benefits for full time positions. These benefits include medical, dental, and vision coverage along with a 401K plan, short- and long-term disability, life insurance, vacation and sick days, and additional optional benefits. The salary range for this position is \$90,000 – \$150,000 per year, commensurate with education, experience, and ability. Employment offers are contingent on the results of background checks, including employment history, criminal background, Federal Watch List, as well as drug and alcohol screening. All background checks will be conducted in accordance with all local, state, and federal laws.

Benefits of Working at Formation:

Formation provides excellent benefits and an exciting work environment with opportunities for significant professional growth. This includes:

- Participation in professional societies, workshops, and scientific conferences
- Active collaboration with teaming partners, research facilities and academic organizations
- Encouragement to explore new markets, technologies, methodologies, and collaborate within and outside the company with the goal of pairing client opportunities and challenges with advanced technology and staff expertise
- Opportunities to explore personally compelling topics by occasionally taking time to work on independent research projects
- Participation in company mentoring program
- Competitive salary
- Medical, dental, vision, life, and disability benefits
- 401k matching program.

About Formation Environmental

Formation Environmental is a rapidly growing consulting firm with offices in Boulder, CO; Sacramento, CA; Calipatria, CA; Portland, OR and project offices throughout the U.S. Our multi-disciplinary team provides scientific, technical, and strategic expertise in environmental engineering, soil science, water resources, vegetation management, and remote sensing.

Formation scientists and engineers are working with clients on some of the most challenging environmental issues facing our world today. Many of our clients have complex and unique challenges

that require a customized solution to meet regulatory requirements, compliance driven schedules, programmatic improvements, risk management, stakeholder engagement, or advanced geospatial insights. Our team excels at working with each client to characterize problems and to create solutions through applied science and cutting-edge technology. To achieve this many of our team members collaborate effectively across multiple practice areas to assemble the best combination of experts.