

POSITION: Hydrology and Hydraulics Engineer

About the Company:

Environmental Science Associates (ESA) is an environmental science, planning, and design consulting firm that is a leader in water resources management and ecosystem restoration. Our work integrates rigorous science with practical engineering solutions to address a range of problems affecting environments from the headwaters to the coast. Ranked as a Zweig White Top 10 Best Environmental Firms to Work for. As a 100-percent employee-owned company with offices located in California, Washington, Oregon and Florida, continuing to meet the needs of our clients as well as the strategic aspirations of our employee-owners requires that we look to add the very best professional talent throughout our practices and offices. Specializing in project planning, environmental analysis and assessment, natural and cultural resources management, environmental restoration and design, and regulatory compliance, ESA's scientists, historians, planners, designers, and technical specialists provide critical thinking and in-depth analysis to guide successful policy development, project planning, and the creation of enduring multi-objective solutions. Joining ESA means becoming part of a family of environmental professionals for whom every day involves growing your career, learning, creativity, fun, and the satisfaction knowing that you've contributed to outstanding iconic projects, improved environmental stewardship, and a more sustainable future for our communities and wild places.

About the Position:

The Hydrology and Hydraulics Engineer will work closely with senior staff in ESA's Northern California Region to expand our Sacramento Environmental Hydrology & Design practice in the areas of flood management, habitat restoration and water resources engineering. ESA's Environmental Hydrology & Design practice has a long history of integrating rigorous engineering analysis with an understanding of natural processes to create creative, multi-benefit solutions to flood management challenges. In this context, our practice spans flood management planning, habitat restoration design, hydraulic and hydrologic analysis, climate adaptation planning and design, integrated water resources engineering and more. The Hydrology and Hydraulics Engineer will support all aspects of the Environmental Hydrology & Design practice in Northern California, but will focus on hydraulic and hydrologic analysis for flood-related projects primarily in the Central Valley region.

Projects

From major river and wetland restoration design projects to specialized studies of climate change hydrology, ESA's Environmental Hydrology & Design practice spans a diversity of water resources planning and design projects. Project opportunities for the successful candidate would span all facets of ESA's Environmental Hydrology & Design practice, but would focus on interdisciplinary, multi-benefit flood management planning and engineering in the Central Valley region. Project opportunities include: existing on-call contracts with DWR's Division of Flood Management, Division of Operations and Maintenance, and Division of Engineering; as well as opportunities with local and regional agencies and non-governmental organizations.

Job Responsibilities

As a result of ESA's strategic growth, our Northern California Environmental Hydrology & Design practice is seeking to add an experienced hydrology and hydraulics engineer with strong modeling skills to our team. This position will support our expanding Sacramento/Central Valley flood management practice, based out of ESA's Sacramento office in the Northern California region.

Your primary responsibilities will include:

- Supporting flood management, restoration, and water resources engineering projects, primarily through simulation modeling and associated report preparation.

- Building and maintaining strong and responsive client relationships in Sacramento and the Central Valley.
- Maintaining a positive and collaborative work environment that promotes professional growth and success.
- Supporting proposal preparation.
- Ensuring that all work products and services meet ESA's quality criteria and applicable professional standards.
- Furthering a legacy of quality service and innovation.

Qualifications:

The ideal candidate will:

- Have expertise in effectively applying hydrology and hydraulics models (e.g., HEC-RAS, both 1D and 2D; HEC-HMS; TUFLOW; MIKE-FLOOD; SRH, both 1D and 2D) for evaluation of project concepts and designs.
- Demonstrated capabilities in associated skills, such as applying HEC-FDA for risk analysis, use of GIS for pre- and post-processing, scripting (e.g., Visual Basic), and coding (e.g., Python).
- Be familiar with Central Valley flood management stakeholders, facilities, operations, and regulatory environment.
- Possess effective problem-solving and critical/analytical thinking ability.
- Have excellent written and verbal communication skills and experience.
- Have some degree of experience in project management or supporting project management.
- Enjoy working in and contributing to a team-oriented, collaborative work environment.

Qualified candidates should have a BA/BS degree in Civil Engineering, Environmental Science or a related discipline and a minimum of 4 years' experience; a Master's degree and/or professional registration (e.g. P.E.) and a minimum of 3 years' experience; or Ph.D. and a minimum of 2 years' experience.

Training and/or experience in fluvial geomorphology, estuarine systems, CEQA/ NEPA compliance, and environmental regulatory permitting are all desirable.

Benefits:

ESA is owned entirely by our employees, creating a unique ownership culture rooted in a commitment to do work that matters, technical excellence, outstanding client service, professional development, and life-long learning. ESA's comprehensive compensation and benefits program reflects our commitment to our employees. Our benefits include: 401(k) Salary Deferral Plan with company match program, Employee Stock Ownership Plan, medical and dental insurance vision care, paid vacation, sick leave, 9 paid holidays, group term life insurance, short-term and long-term disability insurance, commuter/transit incentives, healthcare and daycare Flexible Spending Accounts (FSA), tuition reimbursement assistance, performance bonus plan, and employee referral bonus program.

How to Apply:

If you are interested in applying to become an employee-owner at ESA, please visit the ESA Careers page at www.esassoc.com or follow the link below:

<https://www.paycomonline.net/v4/ats/web.php/jobs/ViewJobDetails?job=8295&clientkey=0A2A2B3498A92573DA13BE33E8BDD296>

Diversity:

At ESA, we value diversity and inclusion. Collaborating with colleagues from a variety of backgrounds, experiences, and perspectives leads to better solutions and opportunities for everyone. We celebrate the differences—age, color, physical ability, ethnicity, family or marital status, gender identity or expression, sexual orientation, language, national origin, race, religion, veteran status, and other characteristics—that make each of us unique. ESA's culture is built on mutual respect, recognizing that the collective sum of our individual differences and life experiences fosters our continued success and achievement, for our employee-owners and our clients.

*ESA is an Equal Opportunity Employer, committed to a diverse and inclusive work environment.
(EOE M/V/F/D)*