

Project Hydrometeorologist Sacramento, CA or Boulder, CO

Formation Environmental, LLC (Formation) is currently seeking a full-time, Project Hydrometeorologist to join our rapidly growing team in either the Sacramento, CA or Boulder, CO office. We leverage remote sensing, GIS, big data, and advanced modeling tools to tackle our client's problems in agriculture, water quantity/quality, crop/nutrient management, air quality, vegetation management, soil remediation, and dust control. We are looking for individuals who are creative and passionate about designing, evaluating, and implementing solutions that solve our clients' challenges. The successful candidate will be expected to:

- Work collaboratively with our scientists, engineers and analysts as well as our teaming partners to deliver successful projects on-time and on-budget.
- Research, design, and implement advanced solutions that couple hydrology, meteorology, and climate sciences with satellite imagery, advanced analytics, and process-based models.
- Drive understanding, selection, and maintenance of new and existing markets, clients, products, and solution enhancements.
- Sustain, enhance, and build a dedicated client base.

The successful candidate will have strong leadership, organizational, and communication skills. The candidate must be detail oriented, able to work independently, and effectively interact with managers, scientists, attorneys, administrative staff, and stakeholders. The ideal candidate will possess the following traits:

- Degree (M.Sc. or Ph.D. preferred) in Hydrology, Meteorology, Water Resources Engineering, or related field.
- Expertise in processes governing water and energy fluxes at the land-atmosphere interface and its applications to solve various environmental issues. Must possess good understanding of processes governing soil water movement and balance, runoff, percolation, rainfall interception, infiltration, evapotranspiration, and plant water uptake.
- Experience with data processing and statistical analysis using R, Python, MATLAB, or similar, and experience in High Performance Computing (HPC). Should be familiar with processing large dataset in a variety of different data formats including ASCII, GRIB, NetCDF, HDF.
- Experience in large-scale hydrological, land surface, weather forecasting and energy balance models (e.g., WRF, WRF-Hydro, Noah-MP, HGS, SWAT, ISNOBAL). Should be familiar with conducting hydrometeorological analyses using multiple products including but not limited to radar, satellite, numerical model data, sounding data, snowpack, soil moisture, inundation, and streamflow data.
- Must possess strong geospatial analysis skillset and statistical skills for calibration, verification, and optimization of forecast models.
- Experience in installing, managing, and operating hydrometeorological stations in complex terrain. Experience with programming datalogger and telemetry configurations.
- Should possess strong written and oral communications skills as demonstrated by peer reviewed publications, reports, and/or scientific presentations.
- Excellent verbal and written communications skills required in English and Spanish

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 \$85,000 – \$125,000, commensurate with education, experience, and ability.

Employment offers are contingent on the results of background checks, including, but not limited to, employment history, criminal background, and Federal Watch List. All background checks will be conducted in accordance with the local, state, and federal laws. To apply for this position, please submit a cover letter and resume to hrinbound@gmail.com.

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. Our scientists and engineers support clients on some of their 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.

Formation provides an exciting work environment with opportunities for mentorship and professional growth. We are committed to creating a diverse, equitable, and inclusive work environment and foster a culture where everyone feels welcomed and supported. We support:

- Participation in professional societies, research projects, workshops, and scientific conferences.
- Collaboration with teaming partners, research facilities and academic organizations.
- Exploring new markets, technologies, methodologies and collaboration within and outside the company with the goal of pairing client opportunities and challenges with advanced technology and expertise.

More information can be found at <https://www.formationenvironmental.com/>.