Geospatial/LiDAR/Field Analyst
Sacramento, CA

Formation Environmental, LLC (Formation) is currently seeking a full-time, LiDAR/Geospatial Analyst to join our rapidly growing team in the Sacramento, CA office. This position offers an opportunity to work with colleagues who provide cutting-edge solutions and leverage geospatial data from a variety of remote sensing technologies, GIS, field sampling and big data. We seek a creative, problem-solver who will contribute to the team by collecting, processing, and analyzing remotely sensed data, and translating geospatial information into actionable knowledge. The qualified candidate will have the opportunity to work across a variety of industries and applications including utility vegetation management, water quality, agriculture, crop/nutrient management, air quality, soil remediation, and dust control. Successful candidates will be part of multidisciplinary teams comprised of various experience levels.

The ideal candidate will have:

- Required:
    - A degree in geospatial sciences, geography, computer sciences, environmental sciences, statistics, engineering, or another related field
    - A minimum of 1 year of experience in remote sensing or geospatial analysis, experience may come through education
    - Experience with data processing and remote sensing software packages like: ArcGIS, QGIS, SAGA, ENVI, ERDAS, GRASS, Terrasolid, LAStools, Quick Terrain Modeler, LP360, MicroStation, CloudCompare, GeoCue
    - Experience in executing scripts, models or macros in geospatial software
    - An ability to travel domestically
    - An ability to operate airborne mapping equipment from a manned aircraft, occasionally for consecutive days in remote and strenuous locations
    - An ability to obtain a UAS pilot license
    - An ability to support survey activities, including operating survey grade GPS.
- Desired:
    - An understanding of horizontal and vertical coordinate reference systems, datum transformations, etc., and their significance with respect to a successful geospatial project
    - Knowledge in statistical analysis and workflow automation using Python, R, Matlab, or similar
    - Expertise in LiDAR classification, data aggregation, statistical analysis, quality assurance, assessment and reporting
    - A technical understanding of applied airborne LiDAR technology and data quality considerations
    - Technical writing skills to communicate results and findings
    - An ability to work and perform in a thoughtful manner under pressure and an experience with remote sensing applications in utility vegetation management programs.

The ideal candidate will also demonstrate a strong commitment to:

- Leadership, organization, and effective communication
- Collaboration and efficient conduct of assignments to support multidisciplinary project teams
- Maintaining and upgrading technical knowledge as well as learning and mastering, technical field work as related to airborne lidar data acquisitions (e.g., airborne sensor operator and field survey technician roles).

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 $70,000 to $90,000 per year, commensurate with education, experience, and ability.

Employment offers are contingent on the results of background checks, including employment history, criminal background, and the Federal Watch List. All background checks will be conducted in accordance with all local, state, and federal laws. To apply for this position, please submit a cover letter and resume to hr@formationenv.com.

About Formation Environmental

Formation Environmental is a rapidly growing consulting firm with offices in Boulder, CO, Sacramento, CA, Calipatria, CA, Portland, OR, Boise, ID, 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 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 objective, many of our team members collaborate effectively across multiple practice areas (and with outside teaming partners) to assemble the best combination of experts to meet our client's needs.

Formation provides an exciting work environment with opportunities for mentorship and professional growth, including:

- Participation in professional societies, research projects, workshops, and scientific conferences
- 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 expertise.