

## REMOTE SENSING SCIENTIST

### Sacramento, CA

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

- Work collaboratively with our scientist, engineers, and analysts as well as our teaming partners to deliver successful projects on-time and on-budget
- Research, design, and implement advanced processing and analysis solutions that utilize remotely sensed data (e.g., airborne/satellite imagery) and advanced analytics to inform physically based, scientific models, preferably in utilities industry.

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, and administrative staff. The ideal candidate will possess the following traits:

- Master's degree in geospatial, environmental sciences, computer sciences, statistics, engineering, or another related field
- 0 to 3 years of related geospatial experience. This includes data collection, calibration, manipulation, processing, analysis, and classification
- Experience with data processing and remote sensing software packages like: ENVI, ERDAS, ESRI, or opens source tools: GRASS, QGIS, SAGA
- Experience with scientific computing and numerical solver libraries like Numpy, SciPy, Eigen, and Ceres
- Experience with geospatial software libraries like GDAL, PDAL, PCL, Proj.4, OSSIM, and NITRO
- Knowledge in statistical analysis and modeling using R, Matlab, and Python
- Expert in machine learning software like Random Forests, CART, ski-kit, TensorFlow, or similar
- Experience in development and implementation of algorithms (Scripts/Models/Macros) in multiple software platforms.

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 \$60,000 – \$80,000 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. To apply for this position, please submit a cover letter and resume to [hreinbound@gmail.com](mailto:hreinbound@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 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.