**Job Description – Hydrologist**

**FOCI**: Hydrology, hydraulics, geomorphology, geospatial analysis and mapping in support of fisheries management, restoration and monitoring.

**LOCATION: West Sacramento, CA**

**Overview:** Cramer Fish Sciences (CFS)is a fisheries research consulting firm that serves clients throughout the Pacific Northwest, California and beyond. Our mission is to rigorously apply the scientific method to afford our clients innovative, scientifically robust solutions to address a variety of fisheries and environmental challenges. The CFS team achieves this through effective and unbiased data collection, analysis and interpretation, and clear communication of results.

**Description**

We are looking for a Hydrologist to join our team of aquatic and physical scientists. We are seeking candidates that have degrees and/or experience in hydrology and geomorphology, particularly as it relates to aquatic ecology and habitat restoration. The selected candidate will join a growing group of scientists in our West Sacramento, California office working on projects throughout California, with a focus on the Central Valley. Ideally, we would like to find a candidate that has basic experience in numerical programming (R or Python) and ArcGIS with a strong desire to expand her/his skillset. Our group works in all aquatic environments including ponds, rivers, lakes, estuaries and deltas. Therefore, candidates with a strong understanding of the relationships between physical and biological processes are preferred. The selected candidate will have opportunities to collaborate on presentations and peer-reviewed manuscripts related to technical work.

**Essential Duties and Responsibilities:**

* Hydrologic and geomorphic data collection and analysis
* Hydrologic and hydraulic modeling and analysis – especially hydraulic and habitat suitability modeling
* Ground and bathymetric surveying and map production
* Perform GIS data collection, post-processing and analysis
* Knowledge and use of R or Python for data programming and analysis
* Test hypotheses, collect data, perform statistical analyses and problem solving for various projects, studies and other assignments
* Complete research, technical writing and data analysis related to project tasks as assigned
* summarize and display data in a variety of informative and visually appealing formats
* Serve as task lead on multiple projects and guide technicians to support the project work and data collection needed
* Manage logistics, including equipment and supply purchase, and assigning tasks to staff
* Attend and present at scientific meetings
* Conduct literature reviews and increase familiarity with scientific literature relevant to projects
* Perform other duties as assigned

**Personal Attributes**

* Positive energy as evidenced in an optimistic outlook and an encouraging disposition. Individual should be affable and capable of working well with others
* Strong desire and initiative to apply traditional and cutting-edge data collection and analysis methods

**Education/Minimum Qualifications:**

* Bachelor’s degree in Environmental Science, Hydrology, Aquatic Management or an equivalent field and 4 years of related experience or Master’s degree in Environmental Science, Hydrology, Aquatic Management or an equivalent field and 2 years of related experience performing hydrology studies, preferably related to anadromous streams
* Master’s degree with thesis preferred

**Desired Experience**

* Environmental sciences including, hydrology, geomorphology, limnology and stream ecology
* Data recording, management and analysis, including GIS analysis
* Proven success with statistical analyses using R or other standard statistical software, Spatial Analyses using Arc GIS, and database management using MS Access
* Demonstrated skills in data collection, entry, and analysis, developing graphs and communicating project methods and findings in presentations and reports

**Working Conditions and Physical Demands:**

* Possible long periods of computerized data analysis in an office environment
* Must be comfortable working in the aquatic environment including working from a boat platform, swimming and wading in rivers, streams, and lakes
* Must be able to work effectively in inclement weather, including hot, cold, rain and fog conditions
* Working in various weather conditions and potentially rugged terrain
* Occasionally working irregular hours (including weekends and evenings) to meet project deadlines
* Travel – field work may require extended travel to remote areas for 2-3 days at a time. Able to drive safely in a variety of weather conditions for extended distances.

**Compensation and Benefits:**

Competitive base salary based on qualifications

Health and retirement benefits

Incentive pay structure available

CFS is an Employee Stock Ownership Plan (ESOP) company