POSITION ANNOUNCEMENT

Since 1993, Davids Engineering has provided professional engineering and scientific services to public agencies, private entities and individual landowners responsible for managing water resources in the western United States. From our initial focus on agricultural water management, we have gradually broadened our technical capabilities to include three tightly integrated groups focusing on Water, Infrastructure, and Technology, respectively. For more information on Davids Engineering, visit www.davidsengineering.com.

POSITION AVAILABLE - SPATIAL HYDROLOGIST

Davids Engineering (DE) is enthusiastically pursuing opportunities to apply innovative and cutting-edge technologies to address water management challenges in the Western US. **We are seeking exceptionally qualified and motivated candidates with experience in: (1) geospatial data science (focused on spatial hydrology), (2) relational database management, and (3) water systems modeling.** All DE team members are expected to have superior analytic and problem-solving skills; ability to express technically complex information clearly, both orally and in writing; ability to self-motivate; attention to detail; strong work ethic; and good moral, ethical, and engineering judgement. Familiarity with agricultural irrigation and production systems is a major plus.

DESIRED QUALIFICATIONS

- General
    - 2 to 5 years of experience in data science, relational database management, and water systems modeling, recognizing that candidates might not have skills in all three areas
    - Practical experience with irrigated agriculture
    - Undergraduate and, preferably, MS or PhD degrees in civil/bioresources/agricultural/environmental engineering, environmental sciences, data science, remote sensing, or related disciplines
    - Proficiency with Python, (Q)GIS, Excel, and Microsoft Access
    - Ability to work as an integral part of a multidisciplinary team of engineers and scientists
    - Excellent time management skills and ability to prioritize and meet project deadlines
    - Strong interpersonal skills with an emphasis on teamwork and respect in the workplace
- Data science
    - Data analysis, visualization, and statistics, including familiarity with remotely sensed data sets
    - Geospatial data analysis with scripting (*e.g.*, Python, Google Earth Engine, etc.)
- Relational database management
    - Structured Query Language (SQL)
    - Database schema design and management (*e.g.*, PostGIS, PostgreSQL, SQL Server, etc.)
    - Data assembly and quality control
- Water systems modeling
    - Theory and practice of modeling water flow through the land surface system (*e.g.*, DWR IDC Model)
    - Theory and practice of hydrodynamic (*e.g.*, HEC-RAS) and rainfall-runoff modeling (*e.g.*, HEC-HMS)

HOW TO APPLY

Please submit your **resume** and **cover letter** to **info@davidsengineering.com.** All inquiries will be handled with strict confidentiality. Visit **www.davidsengineering.com** for more information. The anticipated pay range for this position is between $35/hr and $60/hr depending on qualifications.

Water   Infrastructure   Technology