

Assistant Engineer II (Civil)

\$ 7,659.60 - \$9,807.20 monthly-based on a seven-step salary plan

\$ 91,915.20 - \$ 117,686.40 annually-based on a seven-step salary plan

Duties:

This position performs technical work relating to hydraulics and hydrology in support of District capital and operational programs in both watersheds and water utility divisions. Hydraulic support includes detailed modeling of open channel flow and overland flow in both 1D and 2D models, and interpreting model results. Applications may include floodplain mapping, dam breach analysis, storm sewer analysis, bridge capacity analysis, and channel design. Support may also include sediment transport applications and geomorphology. A secondary function of this position will be to provide hydrologic support, which includes running rainfall runoff simulations for large watersheds and small detention basins, with an understanding of urban drainage systems.

The position will perform pertinent analysis using GIS software to generate flood maps and cost benefit analyses. The position will also assist other engineers within the unit as necessary in general tasks, such as CAD drafting, preparation of documents, and general research.

Key responsibilities include, but not limited to:

- Hydraulic modeling and analysis.
- GIS flood mapping and analysis.
- Hydrologic modeling and analysis.
- General task support (GIS, CAD, field work, survey, document preparation, research).
- Geomorphic and sediment transport analysis.

Ideal candidate's background includes:

- Bachelor's degree in Civil Engineering with an emphasis in Water Resources.
- EIT preferred, PE is not required but desirable.

2+ years' experience:

- Independently building models of open channel flow and overland flow in both 1D and 2D using software such as HEC-RAS for flood protection projects, with exposure to sediment transport applications and geomorphology.
- Performing analysis in GIS and generating flood maps, experience with FEMA floodplain studies and preparing Letter of Map Revision/ Conditional Letter of Map Revision (LOMR/CLOMR).

Ability to:

- Independently perform modeling of open channel flow and overland flow in both 1D and 2D models
- Interpret model results and write a technical report and/or memo summarizing information in a clear and concise manner

- Communicate clearly and concisely
 - Work well in a team environment and manage multiple assignment and projects
- Knowledge of principles of Hydrology and Hydraulics, and their application to modeling software.
 - HEC-RAS and HEC-HMS software exposure.
 - GIS software use and applications for data analysis and manipulation.
 - Field experience performing surveys or reconnaissance.

Experience:

Two years of professional engineering experience at a level equivalent to that of the Assistant Engineer I (Civil) classification (total of two years).

Training:

Equivalent to a Bachelor's degree from an accredited college or university with major course work in civil engineering or a related field.

OR

Possession of a valid California Engineer-in-Training (EIT) Certificate with two years of associated paraprofessional engineering experience.

License or Certificate:

Registered positions within this classification must possess registration as a Professional Civil Engineer in the State of California. This position does not require registration.

Closing Date for Applications: Friday, October 28, 2016.

For detailed information regarding requirements and qualifications for this opening and to apply online, please see the job posting by clicking on the following link:

<http://agency.governmentjobs.com/scvwd>