

California Department of Water Resources

Engineer, Water Resources with the Delta Modeling Section

Full-Time Position Available in Sacramento

Final Filing Date: October 21, 2005

The Delta Modeling Section, Department of Water Resources, is responsible for providing scientific decision support to the DWR through data assessment and development, maintenance, and application of Delta hydrodynamic, water quality, and transport models in order to effectively plan and operate the State Water Project facilities and protect, restore and enhance the San Francisco Bay/Sacramento-San Joaquin Delta system. Our website is <http://baydeltaoffice.water.ca.gov/modeling/deltamodeling/>

POSITION DESCRIPTION

Delta Modeling has an Engineer, Water Resources, full-time permanent position open in its model development group. Projects done in the past have involved a wide variety of projects (examples given below); future projects should be of a similar nature.

- Artificial Neural Networks for fast emulation of observed and model data (<http://modeling.water.ca.gov/delta/models/ann/index.html>)
- Networked computers for large model runs using Condor, relational databases and GUIs, operating rules, and use of HDF5 for storage of large model output (<http://modeling.water.ca.gov/delta/reports/annrpt/2004/2004Ch7.pdf>)
- Implementation of non-conservative water quality constituents (<http://modeling.water.ca.gov/delta/reports/annrpt/1998/1998Ch3.pdf>, <http://modeling.water.ca.gov/delta/reports/annrpt/2003/2003Ch7.pdf>)
- Mathematical and graphical software utilities to view and process input and output time-series data (<http://modeling.water.ca.gov/delta/models/dsm2/tools/vista/index.html>)

The opening requires a degree in Civil or Environmental Engineering at the Bachelors, Masters, or PhD level; and list eligibility for the Engineer, Water Resources online exam. For the official minimum qualifications to take the online exam please refer to the web site listed under THE STATE JOB APPLICATION PROCESS.

DESIREABLE QUALIFICATION

Knowledge of and skill in a modern object-oriented programming language such as **Java, C++, or Python**, and coursework or experience with numerical models. A plus would be interest and skills in graphics and relational databases.

The position is in downtown Sacramento, California; **starting salary between \$3,574 and \$4,969 per month**. For State benefits see http://wwwdms.water.ca.gov/personnel/personnel_ext/salary_benefits.cfm.

THE STATE JOB APPLICATION PROCESS

To apply for this position, you must first take the State Personnel Board, Engineer, Water Resources, online "exam" to obtain list eligibility. Once on the general list, you may apply for this specific position or other Engineering positions at DWR. Start by visiting <https://forms.spb.ca.gov/ewr/?CFID=709871&CFTOKEN=22536708>, create a login account, and take the online exam by answering the questions. Also, please send your CV and inquires to

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