

Opening Date: October 26, 2016
Closing Date: Open Until Filled
Work Location: Austin
Posting Number: 17-10
Monthly Salary: \$4,750.00 - \$5,250.00
Group/Class: B17: 2456 or 2356 / B19: 2460 or 2360 / B21: 2464 or 2364
Travel %: 10
Division/Department: Groundwater/Groundwater Availability Modeling
Number of Positions: 1

JOB VACANCY NOTICE

Groundwater Modeler/GIS Analyst (Hydrologist I, II, III or Geoscientist I, II, III)

*Apply Via Mail/Hand Delivery: Texas Water Development Board
Stephen F. Austin Building, 1700 North Congress Ave., Room 670,
Austin, Texas 78701, via facsimile (512) 463-7644, via email
HR@twdb.texas.gov or via Work in Texas (www.workintexas.com).
Refer to Human Resources (512) 475-2142. Equal Opportunity
Employer*

Veteran's Preference

Veterans, Reservist or Guardsmen with an MOS or additional duties that fall in the fields of 72-D Environmental Science and Engineering, 646X – LDO-Meteorology/Oceanography, 1W0X2 - Special Operations Weather, 23 Research and Development, 8831 Environmental Engineering Management Officer or other related fields pertaining to the minimum experience requirements may meet the minimum qualifications for this position and are highly encouraged to apply.

Additional Military Crosswalk information can be accessed at
http://www.hr.sao.texas.gov/Compensation/MilitaryCrosswalk/MOSC_NaturalResources.pdf

Job Description Summary

The GIS Analyst/Groundwater Modeler performs routine to highly complex (journey to senior level) data evaluation and hydrological/geoscience work to support groundwater modeling studies. Work involves querying, reviewing, and analyzing both spatial and time series data; preparing and peer reviewing reports; performing and/or assisting with the construction of model files; and performing routine to advanced model simulations, data extraction, interpretation, and documentation of model related data, analyses, and results. This position reports to the Manager of Groundwater Availability Modeling and works under moderate to minimal supervision with limited or considerable latitude for the use of initiative and independent judgment, depending on experience.

Essential Job Functions

- Plans, organizes, and implements the acquisition of necessary water resources data to support groundwater modeling staff that develop, run, analyze, and document numerical groundwater flow models and model simulations. This may entail proper documentation of source information; application of set processes; the use and manipulation of various programming scripts; analysis and interpretation of modeling results and water budgets; running numerical groundwater flow models, writing reports; providing presentations; and adhering to and developing quality assurance procedures.
- Designs and implements statewide, regional, and local geospatial datasets and analysis for groundwater studies.
- Assists with the preparation and review of technical groundwater reports.
- Researches and delivers written and verbal responses to public, inter-, and intra-agency inquiries. May include presentations at public meetings summarizing modeling studies and simulations.
- Performs related work as assigned.

Minimum Qualifications

- Graduation from an accredited four-year college or university with a bachelor's degree in Hydrology, Water Resources, Geology, Hydrogeology, Natural Resources, Engineering, Geography, or related field.
- Relevant education and experience can be substituted on a year-for-year basis.

Female and minority applicants are encouraged to apply.

Males born on or after January 1, 1960, will be required to present proof of Selective Service registration on the first day of employment or proof of exemption from Selective Service registration requirement. All offers of employment are contingent upon the candidate having legal authorization to work in the United States. Failure to present such authorization within the time specified by the U.S. Department of Labor will result in the offer being rescinded. Candidates must be eligible to work in the United States without requiring sponsorship. Only applicants interviewed will be notified of their selection or non-selection. Resumes will not be accepted in place of a completed State of Texas application unless indicated.

HR-002
Revised 09/03/15



The Texas Water Development Board does not discriminate on basis of race, color, national origin, sex, religion, age, or disability in employment or provision of services, programs, or activities. www.twdb.texas.gov/jobs

TWDB participates in E-Verify! Information from each new employee's Form I-9 will be provided to the Social Security Administration (SSA) and, if necessary, the Department of Homeland Security (DHS) to confirm work authorization.

Job Vacancy Notice (cont.)

Posting number 17-10

- One (1) to year of work experience in related field.
- Experience using ESRI ArcGIS 10 software product suite.
- Experience using Python scripting language and standard SQL query expressions.

Preferred Qualifications

- Experience or familiarity with developing and using scripts to process and manipulate ASCII data files for scientific applications.
- Experience or familiarity with ArcPy or use of Python scripting within the ArcGIS geoprocessing environment to perform geospatial data analysis, data conversion, data management, and automated maps and table reports.
- Experience or familiarity with computer network administration.
- Experience or familiarity with geostatistical methods.
- Experience or familiarity with groundwater modeling using MODFLOW.
- Experience or familiarity with developing and/or using commercial groundwater modeling pre- and post-processors.

Knowledge, Skills, and Abilities

- Knowledge of Texas aquifers and an understanding of how groundwater is managed in Texas.
- Knowledge of basic hydrological and geological concepts, techniques, and analysis.
- Knowledge of MODFLOW, numerical groundwater modeling techniques, and water budget development and interpretation.
- Knowledge of water resources data including the ability and aptitude to acquire, manipulate, and develop in multiple formats and/or from various sources
- Skills and proficiency with the Python script programming language and standard SQL query expressions.
- Skills in the use of ESRI ArcGIS 10 to perform advanced geospatial analysis.
- Skills in the use of internet, email, word processing, spreadsheet, presentation, and database software.
- Skills in using Microsoft Office programs such as Word, Excel and Access.
- Ability to develop and manage geodatabase feature classes, feature datasets, and associated metadata.
- Ability to communicate effectively, both verbally and in writing.
- Ability to be flexible, be an active team player, and demonstrate moderate initiative.
- Ability to interpret policies, procedures, and regulations.
- Ability to manage multiple tasks and schedule work in order to maintain regular progress on assignments and meet deadlines.
- Ability to stand/sit/move with no physical limitations or aids to perform activities such as retrieve/replace files in a large file system for boxes up to 30 lbs.
- Ability to train others.

Remarks

- Copy of required academic transcripts and/or licensures and driving record must be submitted at the time of hire. Failure to provide required documentation will result in no further consideration for employment.
- Important Notice: Otherwise qualified candidates who are ultimately considered for potential employment with the Texas Water Development Board may be the subject of a request for any criminal history record information maintained by the Texas Department of Public Safety (DPS). Evidence of a criminal conviction or other relevant information obtained from the DPS shall not automatically disqualify an individual from employment with the Texas Water Development Board.