

**Opening Date:** June 8, 2016  
**Closing Date:** Open until filled  
**Work Location:** Austin, Texas  
**Posting Number:** 16-54  
**Monthly Salary:** \$5,833 - \$6,250  
**Group/Class:** B24/0256  
**Travel %:** 0%  
**Division/Department:** Texas Natural Resources Information System Division  
**Number of Positions:** 2

## JOB VACANCY NOTICE

### Systems Analyst V

*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](http://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 25B- Information Technology Specialist, 8848- Management, Data Systems Officer, 3D0X4- Computer Systems Programming 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\\_InformationTechnology.pdf](http://www.hr.sao.texas.gov/Compensation/MilitaryCrosswalk/MOSC_InformationTechnology.pdf).

### **Job Description Summary**

Performs highly advanced and/or managerial (senior-level) computer systems analysis work. Assists Texas Natural Resources Information System (TNRIS) Division manage and publish geospatial information for the State of Texas. Serves on a small core team of developers producing projects under the guidance of the TNRIS Director. Projects are typically oriented around public-facing web sites, services, and mapping applications or internal-facing tools for collaborating. Responsible for managing TNRIS' vast archive of geospatial data. Existing applications are primarily written in JavaScript (with node.js) or python, and run in a cloud-based environment. Reports to the TNRIS Director while working under minimal supervision, with extensive latitude for the use of initiative and independent judgment.

### **Essential Job Functions**

- Works collaboratively to design and develop web-based applications and websites using modern tools and frameworks.
- Identifies new user interface and functional concepts for potential use in our web applications.
- Produces and maintains detailed technical documentation and present solution briefings to management and other development team members.
- Follows established software development processes through the use of source code revision control, test driven development, continuous integration, and rapid release cycles.
- Develops, maintains, and updates TNRIS websites as required.
- Uses issue tracking and project management systems to document lessons learned.
- Assesses system performance, throughput, and reliability to optimize user experience.
- Synthesizes changing business requirements and determine impact to application architecture and schedule.
- Reviews, tests, and revises existing applications and databases as required.
- Monitors applications, services and databases to track usage and performance, and modify as necessary.
- Advises team lead on status of active systems and development activities.
- Performs other related work as assigned.

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](http://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\_\_16-54\_\_

### **Minimum Qualifications**

- Graduation from an accredited college or university with major coursework in Computer Science, Computer Engineering, or a related field.
- Five years of experience with web application development.
- Previous experience with agile methodologies or equivalent software practices.
- Previous experience evaluating and resolving complex business and technical problems across multiple disciplines.
- Previous experience using source revision control, issue tracking systems, and continuous integration or similar systems.
- Relevant experience may be substituted for education on a year-for-year basis.

### **Preferred Qualifications**

- Seven years of experience with web application development.
- Previous experience with open source programming tools.

### **Knowledge, Skills, and Abilities**

- Knowledge of rich internet application architecture, the Model-View-Controller pattern, and the languages of the open web – CSS, HTML, and JavaScript.
- Knowledge of spatial and full-text search database extensions.
- Knowledge of high-level scripting languages to automate common data management tasks.
- Knowledge of software development practices and methodologies.
- Knowledge of context-sensitive search and tagging strategies for unstructured data.
- Skills with modern JavaScript development and the node.js ecosystem.
- Skills in front-end JavaScript frameworks, such as React, Angular, Ember, Backbone, or similar.
- Skills in front-end web mapping technologies, such as Leaflet, CartoDB, Mapbox, ESRI, OpenLayers, Google Maps API, or Bing Maps.
- Skills in source code revision control and management systems, especially git(hub).
- Skills in database management and design, particularly in PostgreSQL and PostGIS.
- Skills in with web mapping services and servers.
- Skills in cloud-based infrastructure, automated deployment tools, and/or unix-based environments.
- Skills in using Microsoft Office programs such as Word, Excel, and Access.
- Skills in use of internet, email, word processing, spreadsheet, presentation, and database software.
- Ability to interpret policies, procedures, and regulations.
- Ability to communicate clearly and concisely, verbally and in writing.
- Ability to work with others in a team environment.
- 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 learn new technologies and frameworks, adapt strategies when necessary, and get things done.
- Ability to train others.

### **Remarks**

- Copy of required academic transcripts and/or licensures 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.