

***POSITION DESCRIPTION***  
***Guadalupe-Blanco River Authority***

**POSITION TITLE: SENIOR WATER RESOURCES ENGINEER**

**I. ORGANIZATION**

Division: Water Sales      Grade: 14      Revision Date: 5/17/2018

System: N/A                      Salary Category: Exempt

**II. REPORTING RELATIONSHIPS**

Immediate Supervisor: Manager, Project Engineering

Next Higher Supervisor: Executive Manager of Project Engineering and Development / Chief Engineer

**III. JOB SUMMARY (Including number of personnel supervised, if applicable)**

This position is responsible for providing technical assistance to GBRA's utility operations, making hydrologic and hydraulic determinations, coordinating with local, state and federal agencies such as emergency management coordinators, the USGS, Corps of Engineers and the National Weather Service, and managing water resource projects as assigned by the Manager of Project Engineering or Chief Engineer. The position requires a fundamental knowledge of project management, construction administration, and water resource engineering including surface and groundwater hydrology, hydraulics, water and wastewater treatment, and piping and pumping systems.

**IV. TYPICAL DUTIES (May include, but not limited to the following)**

- A. Direct, lead, and support other engineering staff and outside consultants in managing and executing design and construction of GBRA projects. Regularly track adherence to budget and schedule, produce reporting on project status, conduct project meetings, and keep all project documentation current.
- B. Collaborate and interact with contractors, consulting engineers, and project developers.
- C. Provide technical support for GBRA's operations including the preparation of design drawings, specifications and construction documents.
- D. Perform condition assessments of existing infrastructure and provide general technical support for the various operating divisions of the Authority.

- E. Assist with master planning of GBRA's water and wastewater operations and develop capital improvement plans for GBRA's operating divisions.
- F. Work with FEMA and other entities to improve flood modeling information within the Guadalupe River Basin.
- G. Oversee and/or conduct engineering and environmental studies and assessments.
- H. Stay technically competent in all related areas of water resources and environmental engineering.
- I. Prepare project budgets and contracts.
- J. Provide technical support for special projects assigned by the Chief Engineer involving various activities such as water rights, water supply, erosion protection, and flooding.
- K. Perform other duties as assigned.

## **V. REQUIREMENTS OF THE POSITION**

### Education:

Bachelor's of Science degree in engineering with a civil, water resources or environmental emphasis. Consideration will be given for other related degree plans with sufficient job-related experience.

### Registrations and Licenses:

Valid Texas Drivers License with acceptable MVR.  
A license to practice Professional Engineering in Texas is required.

### Experience:

Must be able to demonstrate at least seven years of progressively responsible engineering experience.

### Special Requirements:

Must be willing to work nights and weekends during high rainfall, inclement weather, and flood events. Must show initiative and the willingness to learn and apply the technical engineering expertise necessary for a very diverse organization. Must work well in a team environment. Availability to meet work schedules is essential.

This posting is for a full time position but applicants with significant work experience seeking part time employment will be considered.

## **VI. WORKING CONDITIONS, TRAVEL, EQUIPMENT USED**

Approximately 80 percent of work is indoors. Twenty percent is outdoors and may be in inclement weather. Travel varies depending upon projects, but will occasionally involve overnight stay and long work hours.

## **VII. ESSENTIAL JOB FUNCTIONS**

- A. Understand the project management process and apply appropriate tools and techniques to projects assigned.
- B. Operate a motor vehicle with an automatic transmission.
- C. Communicate effectively with individuals and groups using oral, visual and written means.
- D. Make oral presentations to groups of three or more.
- E. Communicate effectively using the telephone and email.
- F. Read, analyze, and interpret complex scientific and financial studies and reports written in English.
- G. Read, legibly write and accurately interpret complex technical material written in English (such as Material Safety Data Sheets, legal contracts and the Federal Register); read such written material in small print.
- H. Employ sound judgment; think coherently and logically; and employ deductive and inductive reasoning.
- I. Perform basic and advanced mathematics, including algebra, trigonometry, geometry and elementary calculus.
- J. Employ and demonstrate an advanced knowledge of electronic spreadsheets such as Microsoft Excel.
- K. Understand basic hydrology and hydraulics with some working knowledge of hydrologic computer programs such as HEC-RAS, HEC-HMS, and EPA NET or similar hydraulic modeling software.
- L. Enter and work in confined spaces, as defined by OSHA.
- M. Climb up and down vertical ladders up to 20 feet in length.
- N. Walk up to 2 miles across rough terrain.
- O. Lift forty pounds to waist height.
- P. Store and retrieve files at least five feet from floor.
- Q. Respond to worksite emergencies at any time without delay.
- R. Respond to visual and audible alarms.