



**SENIOR CIVIL ENGINEER**  
Brownsville Public Utilities Board



## Brownsville Public Utility Board

The Brownsville Public Utilities Board (BPUB) was formally chartered by the City of Brownsville in 1960 to provide electrical, water and wastewater services to its customers in the southernmost part of Texas.

Under the charter, management, operation and control of the city's combined water, wastewater and electric utility systems were delegated to the BPUB Board of Directors. The Board is composed of seven members: six appointed by the City Commission to four-year terms and the city's mayor serving as the seventh member (ex-officio).

BPUB values flexible, proactive customer service catered to best suit the delivery of the finest services possible. BPUB's mission is to create value for customers and the community as the provider of choice for utility services.

By delivering exceptional electric, water and wastewater services to the Brownsville area, BPUB has set the standard as a customer-focused, municipally owned utility (MOU) offering reliable services the community can depend on. Today, BPUB is ranked as one of the largest MOUs in the state and country.

## Water/Wastewater Treatment

Residents of Brownsville and the surrounding communities can trust BPUB's three water treatment facilities and two wastewater treatment plants to provide them with safe drinking water. Our commitment is to offer reliable and quality water services while responsibly managing the water resources of Brownsville.



## The Position

Reporting to the Division Manager for Operations, the Senior Civil Engineer performs advanced engineering professional work in the areas of water and wastewater treatment, pumping, and conveyance, which includes performing civil engineering work involving hydraulic analysis and design of pipelines, pump stations, water reservoirs, water treatment processes, site grading, paving, etc.

## Education and Experience

Qualified applicants will have a Bachelor of Science Degree in Civil Engineering or a related field from an Accreditation Board for Engineering & Technology (ABET) accredited university and six (6) years of progressively responsible experience in the design of public water and wastewater infrastructure and construction management or a related area.

## Required License/Certification

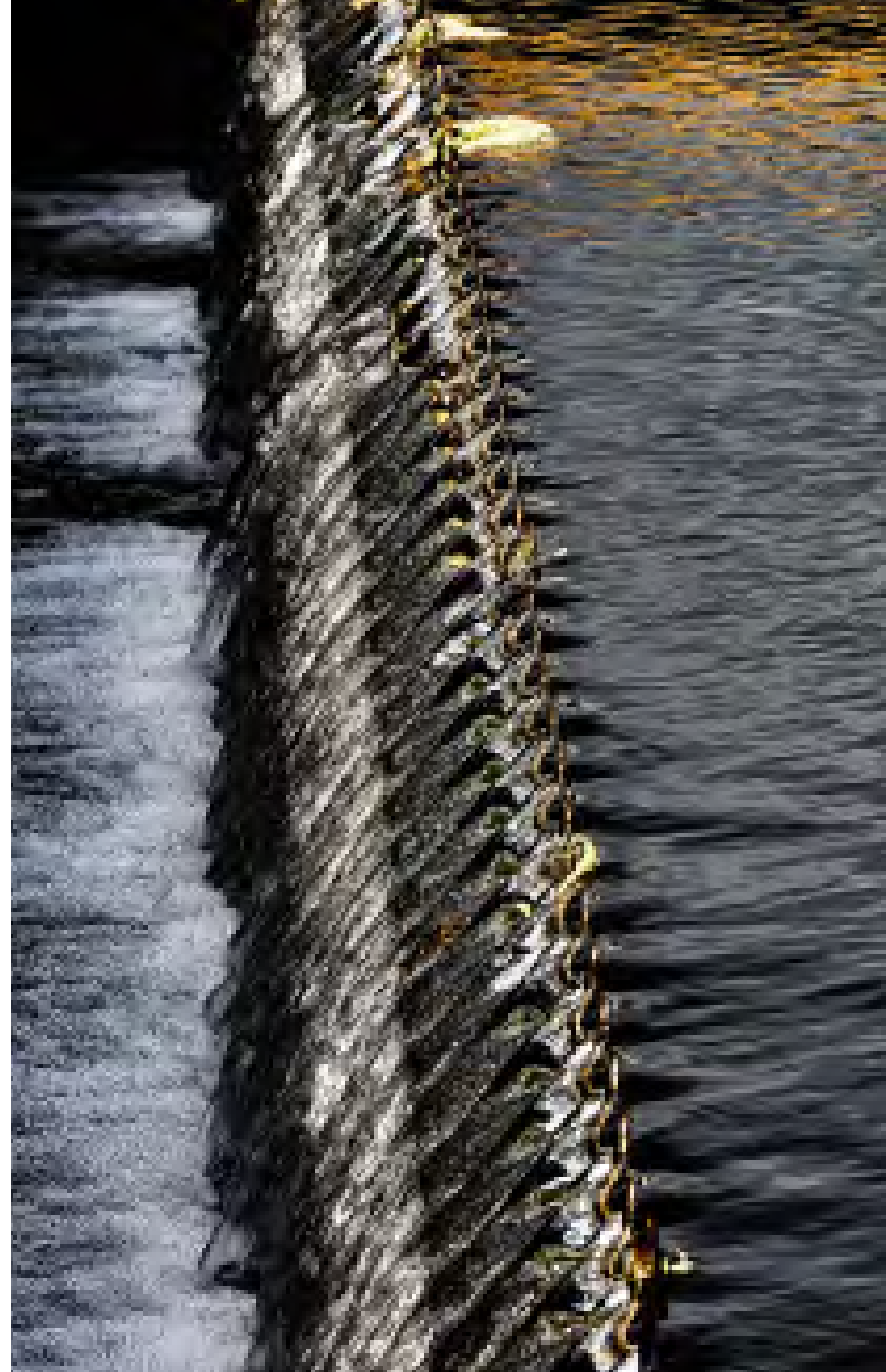
A Professional Engineering (PE) license in the State of Texas is required. A Professional Engineer license from other jurisdictions may be allowed; however, candidates must acquire a Texas Professional Engineer license within 12 months of hire in order to remain in the position.





# Responsibilities and Duties

- Completes water/wastewater pumping, conveyance, and treatment evaluation and engineering design.
- Prepares water distribution system and wastewater collection network hydraulic simulation models.
- Completes condition assessments of water/wastewater infrastructure including water plant structures and pumping stations.
- Evaluates engineering and surveying consultant qualifications and negotiates project scope and fee proposals.
- Manages engineering and construction projects involving consultants and staff.
- Assists with site plan and subdivision reviews.
- Assists with water and wastewater new connection fee estimates.
- Collaborates with other leaders throughout the utility on project pursuits and technical challenges.
- Investigates, reviews, and interprets applicable project industry standards and regulations.
- Prepares engineering calculations, technical reports, and board agendas.
- Prepares permitting correspondence and applications to support projects.
- Prepares project correspondence, presentations, and visual aids.
- Assists operations team with research and selection of equipment for plant optimization.
- Guides employees in the preparation of construction drawings.
- Develops conceptual, preliminary, and final detailed designs, technical specifications, and construction cost estimates.
- Prepares construction documentation including bid documents, specifications, and construction plans for in-house design projects.
- Supervises lower-level personnel participating in the same work and/or in similar, but less difficult work. May assume the duties and responsibilities of higher-level engineering staff.



# Knowledge and Abilities

## *Knowledge:*

- Thorough understanding of applicable local, state, and federal regulations and industry standards.
- Knowledge of computer software necessary for the position (e.g., Microsoft Office, AutoCAD, and Water/Sewer CAD).
- Knowledge of principles and practices applied in the planning, location, design and construction of water and wastewater infrastructure.
- Knowledge of fundamental and applied engineering science, particularly as applied to the field of civil and environmental engineering.
- Knowledge in the operation of the water and wastewater transmission, distribution, and treatment systems.

## *Abilities:*

- Ability to work both independently and as part of a team.
- Ability to work on and manage multiple projects and deliverables simultaneously, within an approved budget.
- Ability to work productively in a team environment.
- Ability to organize, analyze, interpret, and evaluate engineering problems and provide practical and cost effective solutions.
- Ability to comprehend and prepare clear and concise reports of a technical nature.

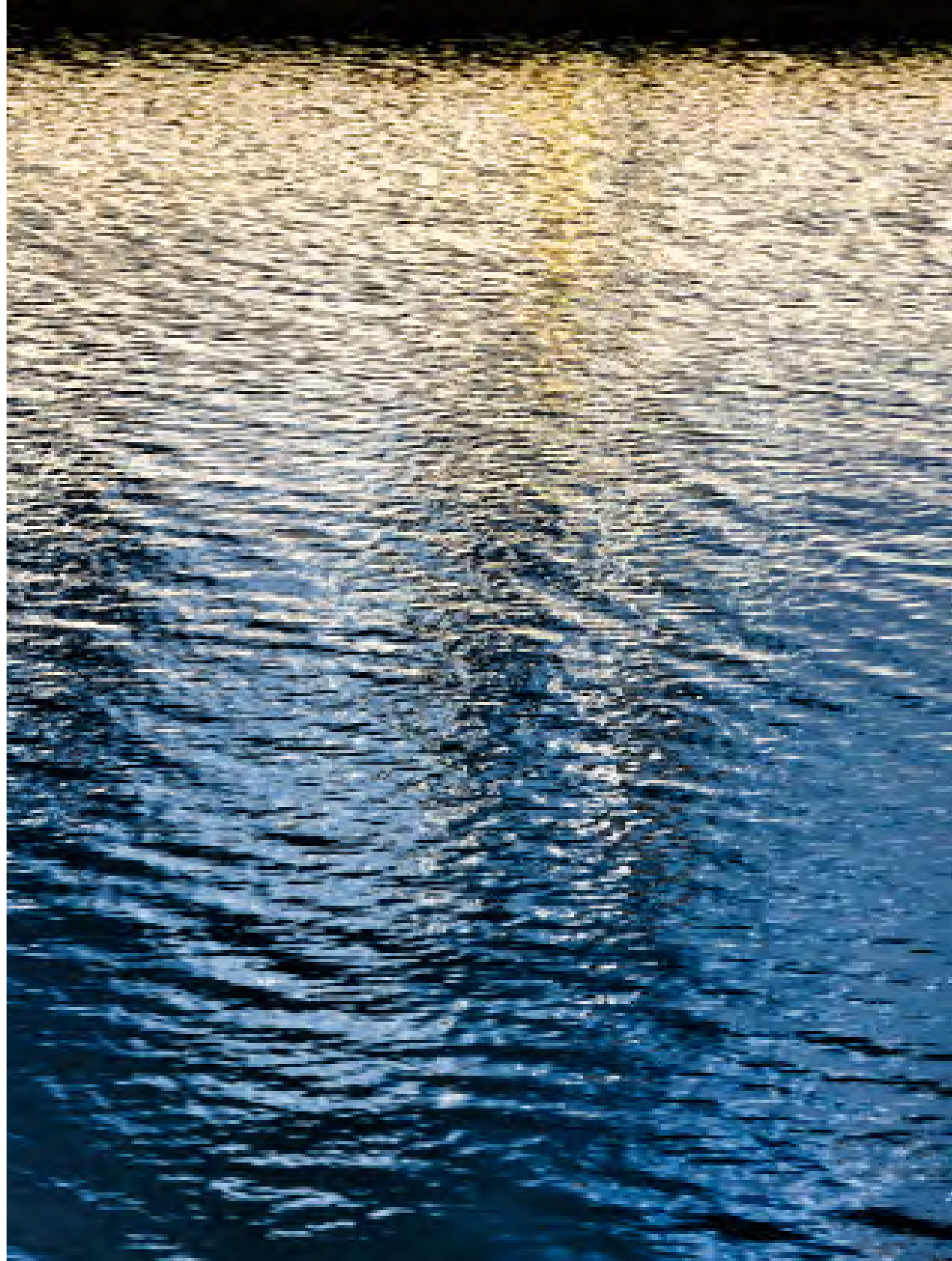


## The Ideal Candidate

The ideal candidate should have significant civil engineering experience in water and wastewater that includes hydraulic analysis and design of pipelines, pump stations, water reservoirs, water treatment processes, site grading, and paving in addition to experience in the design of public water and wastewater infrastructure and construction management, project management, and capital improvement projects. The ideal candidate will have experience in strategic planning, fiscal planning, and budget management.

The ideal candidate must possess excellent customer service skills and a strong ability to establish and maintain effective working relationships with internal and external customers.

The ideal candidate should be detail oriented and demonstrate the capacity and interest to be an effective mentor and leader for staff. This individual should inspire staff to achieve excellence and encourage professional development. Advanced written and oral communication skills are imperative. Skills in analyzing complex data from various sources, synthesizing collected information, and developing sound decisions/recommendations.





## Salary

The Brownsville Public Utilities Board is offering a competitive salary commensurate with experience and a comprehensive benefits package. Relocation assistance will also be available for the successful out-of-area candidate.

## How to Apply

Interested applicants should forward a cover letter and resume to:

[resumes@affionpublic.com](mailto:resumes@affionpublic.com)  
Reference: PUBSRCE

Affion Public  
PO Box 794  
Hershey, PA 17033  
717-214-4922  
[www.affionpublic.com](http://www.affionpublic.com)



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*The Brownsville Public Utilities Board is an Equal Employment Opportunity Employer.*