

Job Title: Senior Capital Projects Engineer Location: Service Center

Department: Water Engineering

Job Status: Full-Time

Reports To: Chief Engineer of Water Systems

Job Grade: 705

Pay Status: Exempt Date Created/Updated: 3/8/2023

Position Summary

The Senior Capital Projects Engineer is responsible for providing professional engineering expertise to the water systems line of business, project management, implementing systems design criteria, standards, and master plans, and supervisory duties for the Water Systems Engineering Division. In addition, this position would be responsible for project management of complex capital improvement projects, managing outside consultants, contract negotiation, as well as coaching, training, and developing Water Engineering personnel.

Essential Duties & Responsibilities

SUPERVISORY DUTIES

- -Coach, mentor, train, and develop Water Engineering personnel
- -Responsible for completing performance reviews, counseling and recommending disciplinary action for direct reports
- -Prepares staff schedules to ensure adequate coverage, backs up duties when needed
- -Conduct regular meetings with direct reports covering topics such as project updates, policies/procedures and safety
- -Verify accuracy and completeness of time entries by direct reports
- -Ensure personnel are safety conscious and adhere to NBU safety guidelines and practices at all times and in all situations

WATER AND WASTEWATER ENGINEERING

- -Perform engineering design calculations for various water and sewer projects
- -Produce construction plans and specifications
- -Review engineering documents of consulting engineers for adherence to federal, state, and local standards
- -Complete Engineers Opinion of Probable Cost for capital projects
- -Run simulations using hydraulic models
- -Work with NBU ROW Division on engineering requirements for securing required easements and permits

PROJECT MANAGEMENT

- -Manage diverse project teams to accomplish project scope, schedule, quality, and budget
- -Prepare Earned Value workbooks to track project performance with respect to schedule and budget
- -Prepare various project management documents including: Project Charters, Project Plans, Authorizations for Expenditures, schedules, budgets
- -Coordinate with consulting engineers, contractors, and other NBU divisions regarding project status, Requests for Information, change orders or other issues
- -Coordinate project communication and visit job sites as needed
- -Select, budget and schedule future capital improvement projects using risk analysis, hydraulic modeling, system performance history, and other relevant information
- -Provide regular updates on scope, schedule, quality, and budget of all projects

UTILITY ENGINEERING

-Provide design, analysis, troubleshooting, and other engineering services for the Water Services Line of

Business

- -Analyze system /operations issues and design solutions
- -Maintain the Water Systems Connection and Construction Policy
- -Develop design alternatives and recommendations based on technical considerations and cost/benefit analysis

GENERAL RESPONSIBILITIES

- -Exercise sounds problem solving and judgment
- -Possess and utilize technical skills capable of analyzing numerous choices and alternatives, and determining the best overall solution
- -Explore creative and innovate ways of performing tasks and solving problems
- -Gather and assimilate complex technical information on NBU's water and wastewater systems and assemble into concise professional reports, drawings, and presentations which illustrate any necessary changes to the current infrastructure
- -Maintain regular attendance; leave schedule should be managed so as to not interfere with ability to accomplish tasks, including special projects and assignments with deadlines
- -Adhere to NBU safety guidelines and practices at all times and in all situations
- -Maintain a clean and safe work area, office, field site and vehicle as applicable
- -Develop & maintain effective customer service skills for communications with co-workers, customers and the public in general
- -Maintain strict confidentiality of business, employee and customer information in written and oral communications and safeguard sensitive documents
- -Adhere to NBU policies and procedures
- -Participate in and support initiatives to reach annual NBU Performance Measures
- -Shows initiative-takes ownership of work, does what is needed without being asked, follows through
- -Establishes priorities and multi-tasks so that assigned duties are completed under pressures of time constraints and deadlines
- -Adapt and respond well to change; manages pressure effectively and copes with setbacks and changes in priorities.
- -Demonstrates effective oral and written communication skills with peers, employees, superiors, and appropriate entities.
- -Ability to deal effectively with matters of a highly visible and confidential nature when applicable
- -Conversations are kept on matters related to NBU business so as to maximize efficiency and productivity
- -Shows evidence of clear analytical thinking; gets to the heart of complex problems/issues; applies own expertise effectively
- -Open to new ideas and experiences; seeks out learning opportunities; supports and drives organizational change
- -Seeks opportunities for self development and career advancement
- -Goes out of the way to be helpful and pleasant to internal and external customers
- -Supports others and shows respect and positive regard for them; works effectively with individuals, groups, and customers via positive interpersonal skills.
- -Successfully persuades and influences others
- -Focuses on customer satisfaction and delivers a quality service or product to the agreed standards
- -Resolves conflict by applying expert knowledge of customer or employee situations to identify disparities and recommend sound solutions.
- -Helpful, respectful, approachable and team oriented; builds strong relationships and a positive work environment.
- -Demonstrates receptivity to new ideas and approaches and adapts with flexibility to accommodate any changes in priorities, circumstances or schedule.
- -Is receptive to feedback, willing to learn
- -Exemplifies NBU Core Values of Integrity, Stewardship, Team, Culture and Safety

Formal Education and Work Experience Requirements

Degree/Diploma Obtained: Bachelors Field of Study: Engineering General

Work Experience Time Frame: Five Years or More

Other: Professional Engineering License from the State of Texas

Certification and Licensures Requirements

Professional Engineer License from the State of Texas

Other Minimum Qualifications

- Accredited Civil, Mechanical, or Environmental Engineering degree is required.
- Five years of experience in the design and construction of water and wastewater systems is required. Experience gained in a municipal setting is preferred.
- Thorough knowledge of principle and practices of civil engineering; knowledge of principles and practices of project management, methods and techniques used in engineering plan review; knowledge of standard specification compliance methods, the development community and contractor construction methods; knowledge of federal, state, and local codes, laws and regulations; knowledge of supervision, training, and performance management; working knowledge of the principles and practices of land development; considerable knowledge of infrastructure inspection principles and practices.
- Familiarity with basic computer software programs such as Microsoft Excel, Microsoft Word, Access, and PowerPoint is required.
- Familiarity with Engineering computer software such as AutoCAD, water and wastewater modeling, and GIS is required
- A valid Texas Driver's License is required to operate a company vehicle when necessary.
- Flexibility in available hours, including holidays, weekends, and/or after hours, is required.

Knowledge of Computer Software

	No Knowledge	Beginner	Intermediate	Expert
Arc GIS				
AutoCAD			\boxtimes	
Crystal Reports	\boxtimes			
Microsoft Access			\boxtimes	
Microsoft Excel			\boxtimes	
Microsoft Word			\boxtimes	
Microsoft Publisher		\boxtimes		
Microsoft PowerPoint			\boxtimes	

Other Software Knowledge

Click or tap here to enter text.

Experience with Machines, Tools, Equipment and Other Work Aids

Telephone, calculator, copier, fax machine, scanner, camera, motor vehicle, computer, printer

Physical Demands

Standing: Occasionally	⊠ Ladder
⊠Making Presentations	⊠ Step Stool
☑ Observing Work Sites	☐ Onto Equipment
☑ Observing Work Duties	
⊠ Communication with Co-Workers	Vision: Constantly
	□ Reading
Fine Dexterity: Frequently	
	⊠ Driving
□ Telephone Keypad	⊠ Observing Worksite
⊠ Calculator	<u> </u>
☐ Calibrating Equipment	Foot Controls: Rarely
	□ Driving
Walking: Occasionally	☐ Operating Heavy Equipment
☐ To Other Departments/Office/Office Equipment	☐ Dictaphone
⊠ Around Worksite	
	Balancing: Rarely
Carrying: Rarely	⊠ On Ladder
⊠ Supplies	☑ On Equipment
☐ Equipment	
⊠ Files	
	Bending: Rarely
Sitting: Frequently	
☑ Desk Work	□ Retrieving Items from Lower Shelves/Ground
⊠ Meetings	☐ Making Repairs
□ Driving	
	Crouching: Rarely
Reaching: Rarely	☐ Filing in Lower Drawers
☐ For Supplies	☐ Retrieving Items from Lower Shelves/Ground
⊠ For Files	
W W D 1	Crawling: Rarely
Handling: Rarely	☑ Under Equipment
⊠ Paperwork	☐ Inside Attics/Pipes/Ditches
☐ Monies	H . O . 11
Vnading Dandy	Hearing: Occasionally
Kneeling: Rarely	☑ Communication Via Telephone/Radio/To Co-
☐ Filing in Lower Drawers	Workers/Public
☐ Retrieving Items from Lower Shelves/Ground	☑ Listening to Equipment
Pushing/Pulling: Rarely	Twisting: Occasionally
✓ File Drawers	⊠ From Computer to Telephone
☐ Equipment	⊠ Getting Inside Vehicle
☐ Equipment ☐ Table and Chairs	_ Setting indice venicle
☐ Hose	Talking: Frequently
1103C	□ Communication Via Telephone/Radio/To-Co-
Climbing: Rarely	Workers/Public
⊠ Stairs	

Other: Click or tap here to enter text.

Environmental Factors

	Never	Seasonally	Several Times Per Year	Several Times Per Month	Several Times Per Week	Daily
Extreme Temperature (Heat, cold, extreme temp. change)						
Wetness and/or humidity (bodily discomfort from moisture)		\boxtimes				
Respiratory Hazards (Fumes, gases, chemicals, dust, and dirt)						
Noise and Vibration (sufficient to cause hearing loss)						
Physical Hazards (High voltage, dangerous machinery, aggressive Customers)						

Health and Safety Conditions

	Never (Never Occurs)	Rarely (Less than 1 hour per week)	Occasionally (1/3 or more of the time)	Frequently (From 1/3 to 2/3 of the time)	Constantly (2/3 or more of the time)
Mechanical Hazards					
Chemical Hazards					
Electrical Hazards					
Fire Hazards					
Explosives					
Communicable Diseases					
Physical Danger or Abuse					

Other: Click or tap here to enter text.

Other: Click or tap here to enter text.							
Overall Strength Demands							
	Sedentary - Exerting up to 10	pounds occas	ionally or neglig	gible weight frequ	uently, mostly si	tting	
\boxtimes	Light - Exerting up to 20 poun	ds occasional	ly, 10 pounds fr	equently, walkin	g or standing of	ten	
☐ Medium - Exerting 20 - 50 pounds occasionally, 10 - 25 pounds frequently, or 10 pounds constantly							
☐ Heavy - Exerting 50 - 100 pounds occasionally, 25 - 50 pounds frequently, or 10 - 20 pounds constantly							
	Very Heavy - Exerting 50 pou	nds constantly	y				
N	on-Physical Demands						
		Never	Rarely	Occasionally	Frequently	Constantly	
	Time Pressure						
	Emergency Situations						
	Frequent Change of Task						
	Irregular Schedule/Overtime						
	Performing Multiple Tasks Simultaneously						
	Working Closely with Others as Part of a Team						
	Tedious or Exacting Work						
	Noisy/Distracting Environment						
0	ther: Click or tap here to enter	text.					
E	mployee Statement of Unders	tanding					
THIS JOB DESCRIPTION DOES NOT CONSTITUTE AN EMPLOYEE AGREEMENT BETWEEN NEW BRAUNFELS UTILITIES (NBU) AND THE EMPLOYEE. Nothing is this position description restricts NBU's ability to assign, reassign or eliminate duties and responsibilities of this job at any time. I HAVE READ AND RECEIVED A COPY OF THIS JOB DESCRIPTION.							

Employee's Signature

Employee's Printed Name							
Date	-						