



Senior Engineer

Position Classification: M-2

RESPONSIBILITIES

The position will require the application of engineering and management principles to support all areas of the Authority's business as a Federal and State regulated New Jersey Public Water System which requires a Level 4 Water Treatment and Level 4 Water Distribution Licensed Operators of Record. Examples of assignments include water treatment and distribution operations; management of development projects; design; permitting; hydraulic modelling; project management; construction administration; implementation of various technologies such as AMR, GIS, etc.

The position requires strong engineering, project and construction management, and communication (written and oral) skill sets. The persons serving in this position are expected to maintain up-to-date skill sets to remain current with best available technologies.

The position requires rotating on standby one (1) week out of every four (4) in order to obtain the required experience to qualify for a NJDEP Level 2 Water Treatment and Distribution System Operator's License.

AUTHORITY

This position is a direct report to the Executive Director/Chief Engineer, indirect report to the Superintendent, requires supervision of professional and field staff, requires interaction with the general public and local, county, State and Federal public agency representatives.

REPORTING

This position will be assigned to work at the Authority Headquarters located at 19 Saddle Road in Cedar Knolls, New Jersey, 07927. The assigned work hours are from 7:30 a.m. to 4:00 p.m. with a one-hour non-paid lunch. The start and finish times of a work day may vary depending on Authority needs.

Office assignments will be supplemented with Authority field work activities.

QUALIFICATIONS

Prior to start date:

1. As a condition of employment, after an offer has been issued but before employment has commenced, the successful applicant must successfully complete an illegal substance test, security and motor vehicle background check and the Functional Capacity Exam, where the work ability form is attached.
2. New Jersey State Police, State Bureau of Identification Form 212B Name Check

Mandatory:

1. B.S. degree from an ABET accredited institution in Civil, Chemical or Environmental Engineering or related discipline.
2. Engineer-in-Training Certificate.
3. Three (3) to ten (10) years of engineering and related experience.
4. New Jersey driver's license.
5. Excellent written and oral communication skills in English.
6. Proficiency in personal computing applications such as Microsoft Office.
7. Travel, including overnight and weekend stays, as needed to attend professional related seminars, conferences, etc. Travel may be local, regional or within the Continental US.

Required to obtain within four (4) years of first day of employment:

1. New Jersey Department of Environmental Protection Level 2 Water Treatment Operator's License and Level 2 Water Distribution Operator's License.
2. Active membership and participation in professional organizations such as the American Society of Civil Engineers, American Water Works Association, etc.

Desirable:

1. New Jersey Professional Engineer's License.
2. Master of Science degree from an ABET accredited Civil and/or Environmental Engineering institution.

/attachment

TITLE:	Senior Engineer	PREPARED BY:	CM	DATE PREPARED/REVISED:	09/14/2015
DIVISION:	Information Technology	DEPARTMENT:		APPROVED BY:	PK

JOB RELATED PHYSICAL ACTIVITIES	DETAILS	RARELY - up to 5 mins of total work time.	SELDOM - 6-29 minutes daily.	OCCASIONALLY - 30 mins to 2 1/2 hrs per day	FREQUENTLY - 2 1/2 to 5 1/4 hrs per day	CONTINUOUSLY - 5 1/4 hr or more per day	Notes
Standing	Maintaining the entire body in an erect posture without change in location			✓			
Sitting	Resting of the body weight in a seated position while engaging in a single activity				✓		
Walking	Moving the entire body from one location to another using a heel to toe gait.			✓			
Carrying	To hold or rest weighted objects (<i>indicate weight</i>) directly on hands, arms, shoulders, or back while walking from one location to another.		✓				No more than 40 pounds
Reaching Above Shoulder	To extend either arm to reach from shoulder level to overhead.		✓				
Pushing	Exertion of force on or against an object (<i>indicate weight/size</i>) to move it from one location to another		✓				No more than 40 pounds
Pulling	Exertion of force to draw an object towards oneself in a particular direction or position.		✓				
Climbing	Ascend/descend with gradual or continuous progress by oneself, using both hands and feet	✓					
Balance	To maintain body equilibrium on narrow or inclined surfaces.	✓					
Bending	Flexion of the upper trunk forward while standing and knees extended or knees flexed when sitting.			✓			
Stooping	Flexion of the upper body forward at the waist with partial flexion of the knee.		✓				
Kneeling	Maintaining the body in an erect posture while resting body weight on one or both knees.		✓				
Crouching	Bending downward and forward by bending the legs and spine		✓				
Reaching	Extending the hands and arms in any direction		✓				
Crawling	Moving body slowly in a prone position on hands and knees flexion, with arms extended and elbows bent.	✓					
Squatting	Maintaining the body in an erect position with full flexion of the knees		✓				
Trunk Twisting	Rotation of the neck or trunk to the right or left from a neutral position while sitting or standing		✓				
Handling	Flex and extend fingers with opposition of thumb using palms, fingers and thumbs to grasp or manipulate objects.		✓				
Handle	To maneuver objects, to manipulate or repositon medium to large sized items. Has handles to be grasped by the hands in order to manage dexterously or efficiently, e.g., large bag of trash, move furniture, cases/boxes with handles		✓				
Grasping	To handle, clasp or embrace with both arms, hands fingers. To take or to seize, e.g., bag of cement	✓					
Manipulate	To operate, manage, control, or utilize skillfully with the hands. Adroit handling, e.g., steering wheel, hand truck, pallet jack.		✓				
Lift/Loading	An amount or a weight raised or capable of being raised at one time	✓					
Repetitive Motions	Substantial Movements (motions) of the wrists, hands, and/or fingers.				✓		
Digging	To break up, turn over or remove earth, sand, etc, as with a shovel, spade, bulldozer, or claw						Never
Shoveling	To move or remove with a shovel gravel, sand, and/or snow						Never
Driving	The controlled operation and movement of a land vehicle, such as a car, truck or bus (<i>indicate manual or automatic</i>)			✓			Automatic