

ENGINEERING TECHNICIAN IV

Recruitment #1803-1887-001

List Type	Original
Requesting Department	DPW-WATER-ENGINEERING
Open Date	3/22/2018 3:00:00 PM
Filing Deadline	4/12/2018 11:59:00 PM
HR Analyst	Deidre Steward

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INTRODUCTION

Located on the western shore of Lake Michigan, Milwaukee is an urban hub bursting with energy. Milwaukee provides a casual sophistication – big city appeal without the big city hassles. We are accessible and affordable, and our residents are welcoming. Milwaukee has evolved through the years, bringing together its unsurpassed old world charm with a breathtaking Art Museum, top-flight arts and cultural attractions, professional sports, lakefront festivals, recreational opportunities, and great restaurants.

PURPOSE

Under the direction of the Management Engineer, the Engineering Technician IV conducts water main relay and water distribution repair inspections, performs fire flow and hydrostatic tests to verify flow and pressure, inspects and tests materials, and conducts field investigations.

ESSENTIAL FUNCTIONS

- Inspect the installation of water main replacement conducted by contractors to ensure and enforce proper construction methods and MWW specifications.
- Consult with engineering staff for field alterations.
- Ensure MWW specified and inspected materials are properly handled and installed.
- Ensure proper excavation safety and traffic control procedures are implemented and followed.

- Provide customer outreach and communications for those affected by the construction activities and ensure the contractor provides adequate clean-up of the site when finished.
- Conduct thorough inspections and provide detailed documentation of lead service line replacement projects.
- Manage the overall project to provide MWW with efficient job completion at the best possible cost.
- Prepare detailed daily records, including making detailed sketches, written and/or photographic reports of work progress and completed projects.
- Inspect and test water main pipe, valves, hydrants, fittings and all material used as part of the MWW water distribution system.
- Approve or reject materials based upon specifications and acceptable tolerances.
- Conduct visual inspections, hydrostatic testing, pressure testing, torque testing, weights and measurements.
- Prepare detailed written reports of inspections to document findings.
- Communicate with inventory staff as to the status of materials inspected and tested.
- Communicate material defect findings with vendors and manufacturers as requested by Engineering Management.
- Conduct field investigations to troubleshoot system anomalies such as pressure fluctuations and problems with pumping operations.
- Install, monitor and report results from pressure recording devices.
- Conduct flow tests of hydrants to establish hydraulic analyses and studies, and to determine system robustness.
- Document the results and provide information to insurance companies on fire flow tests, as requested.
- Conduct inspection of emergency leak repairs by contractors as needed.
- Document contractor activities, assist with repair materials and complete work orders and requisitions.
- Consult with Distribution Management regarding contractor difficulties or complications.
- Document job details and provide to Distribution Management.

Reasonable accommodations requested by qualified individuals with disabilities will be made in accordance with the Americans with Disabilities Act (ADA) of 1990, as amended by the Americans with Disabilities Act Amendments Act (ADAAA) of 2008.

CONDITIONS OF EMPLOYMENT

- *Must be able to perform physical activities in the work environment that require agility including ascending or descending ladders, stairs, scaffolding, ramps or poles; walking and standing, crawling, crouching, stooping, kneeling, reaching, balancing, pushing and pulling.*
- *Must be able to perform medium physical work, exerting up to 50 lbs. of force occasionally and lifting and moving objects weighing 20 lbs. frequently.*
- *Must be able to withstand prolonged exposure to variable and extreme weather conditions including rain, wind, excessive heat, intense cold and snow.*
- *Must be able to tolerate vibrating work conditions and noise.*
- *Must be able to work in confined spaces.*
- *Must be able to work mandatory overtime as the job/project requires and to respond to emergency call-outs when needed.*
- *Must be able to work in proximity to moving mechanical parts.*

MINIMUM REQUIREMENTS

1. Associate's degree in civil engineering or engineering field and three years of related engineering or construction experience performing duties similar to the essential functions listed above.

OR

Five years of related engineering or construction experience performing duties similar to the essential functions listed above.

2. Valid driver's license at time of appointment and throughout employment.

Note: Equivalent combinations of education and experience may also be considered.

IMPORTANT NOTE: *College transcripts are required and must be received by the application period closing date. Transcripts should be attached to your online application. Applications without transcripts attached will be considered incomplete and will be rejected. Student/unofficial copies are acceptable; however, your transcript must be legible and include your college/university name, your name, the degree completed (if applicable) and the date completed.*

DESIRABLE QUALIFICATIONS

- DNR Distribution Operators Certificate.
- Knowledge of Micro Station and ESRI..

KNOWLEDGES, SKILLS, ABILITIES & OTHER CHARACTERISTICS

- Knowledge of construction methods and techniques.
- Proficiency using computer applications such as spreadsheet, database and word processing software.
- Ability to read and interpret construction drawings, technical drawings and specifications.
- Written communication skills; ability to write technical reports and general business correspondence.
- Time management skills in order to work on multiple projects with varying deadlines.
- Analytical and problem-solving skills in order to analyze information to evaluate options and to find the best solution.
- Ability to use computer aided drafting software and equipment and network file management systems.
- Ability to produce accurate, daily inspection reports, detailed plans, drawings, maps and diagrams using CAD/GIS software.
- Ability to act as the primary on-site coordinator for water main construction projects.
- Ability to use proper tools to measure, estimate and verify construction project specifications.
- Interpersonal and customer service skills to work effectively with internal and external customers.
- Ability to be diplomatic and tactful when dealing with customers.
- Ability to work effectively in a diverse, team-oriented environment.
- Ability to work cooperatively and effectively with coworkers and citizens whose backgrounds may differ from one's own.
- Ability to remain professional at all times.
- Honesty and integrity.

CURRENT SALARY

The current salary range (Pay Range 3NN) for City of Milwaukee residents is \$45,185-\$61,296 and for non-residents is \$44,077-\$59,792.

The City of Milwaukee provides a comprehensive benefit program that includes the following:

- Defined Benefit Pension Plan
- 457 Deferred Compensation Plan
- Health and Dental Insurance
- Comprehensive Wellness Program

- Onsite Clinic Services
- Onsite Employee Assistance Program
- Alternative Work Schedules
- Long Term Disability Insurance
- Group Life Insurance
- Tuition Benefits
- Paid Vacation
- 11 Paid Holidays
- Paid Sick Leave and other paid leaves
- Flexible Spending Arrangement Commuter Value Pass For full details of the benefits offered by the City of Milwaukee, please visit <http://city.milwaukee.gov/Benefits2018>.

SELECTION PROCESS

THE SELECTION PROCESS will be job related and will consist of one or more of the following: education and experience evaluation; written, oral, or performance tests, or other assessment methods. The Department of Employee Relations reserve the right to call only the most qualified candidates to oral and performance examinations. Oral examinations may include written exercises. Selection process component weights will be determined by further analysis of the job.

INITIAL FILING DATE - The examination will be held as soon as practical after **Thursday, April 12, 2018**. Receipt of applications may be discontinued at any time after this date without prior notice. However, recruitment may continue until the needs of the City have been met. Qualified applicants will be notified of the date, time, and place of the examination. Unless otherwise required by law, the City of Milwaukee will not provide alternative test administration. The applicant is responsible for attending all phases of the job selection process at the time and place designated by the City of Milwaukee.

ADDITIONAL INFORMATION

- APPLICATIONS and further information may be accessed by visiting, <http://city.milwaukee.gov/jobs>.
- If you would like assistance completing an application, please contact the Department of Employee Relations at (414) 286-3751 or staffinginfo@milwaukee.gov.
- The Department of Employee Relations is located at City Hall, 200 E. Wells St., Room 706, Milwaukee, WI 53202

CONCLUSION

EEO 303

The City of Milwaukee values and encourages diversity and is an equal opportunity employer.

Click on a link below to apply for this position:

**Fill out the Supplemental Questionnaire and
Application NOW using the Internet.**

