

TRAFFIC ENGINEER

Traffic Control Engineer III

Recruitment #1601-1871-001

List Type Original

Requesting Department DPW-INFRASTRUCTURE-ELECTRICAL

Open Date 2/17/2016 12:00:00 PM

Filing Deadline 3/9/2016 11:59:00 PM

HR Analyst Lindsey O'Connor

INTRODUCTION

What Milwaukee can offer YOU

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.

The City of Milwaukee offers a collaborative, positive work environment where each employee contributes to making the city the best place possible to live and work. The City offers a comprehensive benefits package, including a top rated pension plan, health and dental benefits, paid time off including vacation, 11 holidays and sick leave accrual, and much more.

PURPOSE

Are you ready to lead a team of technical professionals in traffic operations? Are you interested in being exposed to the traffic engineering technology of the future?

Working in the Traffic section of the Department of Public Works provides a flexible, technology-driven work environment. In this role the Traffic Control Engineer III will lead a team that provides the public with safe, efficient travel through engineering design related to installation, operation and maintenance of traffic control signals and signal systems.

ESSENTIAL FUNCTIONS

- Direct the timing of traffic signals and offset relationships in signal systems, as well as the layout and design of traffic signal equipment.
- Prepare grant applications for non-traditional projects funded through various Federal Transportation programs.
- Prepare Federal and Wisconsin Department of Transportation contract documents; compile supporting information for all traffic control grant projects. Coordinate the design, installation and operation of all traffic control facilities included in these grants. Monitor project progress and budgets related to these grant projects.
- Analyze crash data, develop accident countermeasures, and prepare reports on crash mitigation strategies. Review and prepare traffic forecasts and Traffic Impact Analysis. Prepare and review traffic reports.
- Oversee and perform roadway geometric design associated with Federal grant-in-aid projects and the City's Capital Improvement Program.
- Serve as project liaison and coordinate work on City traffic control facilities for projects being developed and completed by other jurisdictions, including the development of traffic mitigation strategies. Establish and monitor funding for these projects.

- Investigate and respond to complaints and requests made by Alderpersons and private citizens concerning traffic signal operation and traffic safety.
- Prepare specifications and assist in the purchase of traffic control equipment and materials.
- Prepare consultant and construction contracts and monitor project performance for work on City projects. Review permit applications for work by private contractors.

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.

MINIMUM REQUIREMENTS

1. Bachelor's Degree in Engineering with an emphasis in transportation or traffic engineering.
2. Two years of professional engineering experience with at least one year as a Traffic Engineer with lead responsibilities.
 - **IMPORTANT NOTE:** *To receive credit for college, transcripts are required and must be received by the application period closing date. College transcripts should be attached to your online application. Applications without transcripts attached will be considered incomplete and will be rejected.*
 - *Transcripts must be legible and include the following information: the university or college name, your name, the degree completed (if applicable) and the date the degree was completed.*
3. Valid driver's license and availability of a properly insured personal vehicle for use on the job required at time of appointment and throughout employment. Mileage reimbursement is provided.

DESIRABLE QUALIFICATIONS

- Registration as a Professional Engineer or Engineer in Training with the ability to obtain registration as a Professional Engineer in the State of Wisconsin.

KNOWLEDGES, SKILLS, ABILITIES & OTHER CHARACTERISTICS

- Knowledge of traffic signal programming, phasing and coordination.
- Knowledge of Wisconsin Motor Vehicle Laws.
- Knowledge of the City of Milwaukee Traffic Code and other ordinances relative to the public way.
- Knowledge of the Federal Manual on Uniform Traffic Control Devices and its Wisconsin State Supplement.
- Knowledge of the Institute of Transportation Engineers Engineering Handbook.
- Knowledge of principles of Traffic Control and Traffic Signal operation.
- Knowledge of Highway Capacity Manual Concepts.
- Knowledge of provisions of the Wisconsin Department of Transportation Facilities Design Manual.
- Knowledge of the Wisconsin Department of Transportation Traffic Signal Design Manual.
- Knowledge of the American Association of State Highway Transportation Officials Design Guide.
- Knowledge of computer software packages including Highway Capacity Software (HCS) and Synchro for traffic analysis and signal optimization.
- Knowledge of cabinet functionality and programming including 170 and TS-2, ASC3 controller programming, Aries/Centracs central software and CADD.

- Analysis skills to understand and interpret statistical information such as crash and traffic data to use for planning, comparison of alternative options or to complete traffic impact analyses and traffic forecasts.
- Customer service orientation to ensure complaints from elected officials and the public are handled effectively.
- Interpersonal skills to effectively develop and maintain working relationships with culturally diverse individuals inside and outside the organization.
- Oral communication skills to effectively present and share technical information regarding traffic signals and operations with individuals of all technical levels.
- Written communications skills to prepare reports including complex traffic analysis for non-technical individuals as well as Wisconsin DOT documents such as design work orders and project scheduling, design documents, reports, traffic signal plans and exhibits.
- Ability to supervise, coach and mentor a technical team of engineers to assign, direct, inspect or review work and train and develop individuals.
- Ability to apply time management techniques and prioritize responsibilities to ensure work is accomplished by project deadlines.
- Ability to operate with high level of dexterity a computer keyboard, mouse, and other computer components.
- Ability to walk on uneven ground and short distances to complete field work at job sites.
- Ability to lift up to 10 lbs. to complete office tasks such as moving files and making copies.

CURRENT SALARY

SALARY The starting salary (PG 2IN) for City of Milwaukee residents is \$66,324 and for non-residents is \$64,697. Appointment up to \$72,492 for residents or \$70,714 for non-residents is possible based on qualifications and experience.

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 reserves the right to call only the most qualified candidates to oral and performance examinations. Oral examinations may include written exercises.

- ***NOTE:*** *The City's residency requirement set forth in City Charter 5-02 is under litigation. Even though the City is legally able to enforce the current residency requirements based on a recent Wisconsin Court of Appeals decision, the City has agreed to continue to suspend enforcement of the ordinance until the Wisconsin Supreme Court issues a final decision. If the Wisconsin Supreme Court affirms the Court of Appeals decision, the City intends to fully enforce the residency requirement for all employees. Consequently, employees who disregard the requirements of the ordinance do so at their own risk. Applicants for City of Milwaukee positions should understand the City's commitment to its residency requirement. During this period of uncertainty it is important to take that into account when submitting an application and more importantly when deciding to accept an employment offer. Please contact (414) 286-3751 if you have questions regarding your individual circumstances as part of the application and/or selection process.*

INITIAL FILING DATE – The examination will be held as soon as practical after **March 9, 2016**. 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.