

# ELECTRICAL ENGINEER I & II

Recruitment #2103-1827-001

<b>List Type</b>	Original
<b>Requesting Department</b>	DPW-INFRASTRUCTURE-TRANSPORT
<b>Open Date</b>	3/26/2021 4:45:00 PM
<b>Filing Deadline</b>	4/16/2021 11:59:00 PM
<b>HR Analyst</b>	Jeff Harvey

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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.

*The City of Milwaukee is proud to employ a diverse workforce that is committed to providing exemplary service to the City's residents. If you have a passion for being a part of an inclusive team of public servants, please consider the following opportunity.*

This position will be filled at the level of Electrical Engineer I (PG 2EN) or Electrical Engineer II (PG 2GN), depending upon the qualifications of the candidate and the needs of the Department of Public Works.

**Candidates will be placed on the highest level eligible list for which they qualify.**

## PURPOSE

The Electrical Engineer performs all aspects of the planning and design of the City of Milwaukee's street lighting system.

## ESSENTIAL FUNCTIONS

### Design and Planning:

- Plan and design street lighting facilities, including electrical circuit design, lighting unit selection and location, cable size and routing pipe and conduit installation, preliminary field investigation and final site layout.
- Prepare street lighting plans, cost estimates and work orders for lighting system designs related to area lighting projects, paving projects, facility improvements and specialty lighting projects.

- Coordinate street lighting construction activity with City and other public and private agencies and utilities.
- Investigate requests for new or additional street lighting facilities.
- Compile and provide information to contractors, architects, public utilities, and City, County and State agencies on current street lighting facilities, policies and practices.

#### **Administration and Documentation:**

- Ensure, through specifications and permitting comments, the protection of street lighting facilities in conjunction with City projects.
- Coordinate the relocation or adjustment of street lighting facilities in conjunction with other City projects, other public utilities, or government agencies.
- Perform tests and prepare reports on various types of street lighting materials, including recommendations and development of specifications for purchase.
- Prepare documents to submit to WISDOT for Local Force Account (LFA) projects.
- Prepare resolutions and the supporting documents.

*We welcome qualified individuals with disabilities who are interested in employment and will make reasonable accommodations during the hiring process 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**

#### **Electrical Engineer I**

1. Bachelor's Degree in Electrical Engineering from a school of engineering whose program is accredited by the Accreditation Board for Engineering and Technology (ABET).
2. Valid driver's license at time of appointment and throughout employment.

#### **Electrical Engineer II**

1. Bachelor's Degree in Electrical Engineering from a school of engineering whose program is accredited by the Accreditation Board for Engineering and Technology (ABET).
2. One year of professional experience in the design and review of electrical systems or electrical distribution systems.
3. Valid driver's license at time of appointment and throughout employment.

**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. Your transcript 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. Student copies are acceptable.*

### **DESIRABLE QUALIFICATIONS**

- Coursework in power distribution systems.
- Experience with lighting design concepts.

## KNOWLEDGE, SKILLS, ABILITIES & OTHER CHARACTERISTICS

### Technical

- Knowledge of electrical energy distribution systems.
- Knowledge of the planning and design of lighting systems.
- Working knowledge and understanding of design codes and standards, such as National Electric Code (NEC), National Electrical Safety Code (NESC), National Electrical Manufacturers Association (NEMA), Institute of Electrical and Electronics Engineers (IEEE) and American National Standards Institute (ANSI).
- Ability to use computer programs such as MS Word, MS Excel, MS Outlook and Microstation (or other drafting software).
- Knowledge of remote terminal unit (RTU) and data concentrator based supervisory control and data acquisition (SCADA) systems, telemetering and communications.
- Ability to prepare cost estimates and work orders.

### Communication and Interpersonal

- Interpersonal skills to positively and effectively interact with staff, other city departments, outside agencies, the public and city officials.
- Ability to read and interpret work related materials, such as government regulations and city ordinances.
- Written communication skills to develop professional correspondence.
- Ability to handle effectively, and with tact, inquiries from elected officials, the public and other city departments.
- Ability to work cooperatively with people whose backgrounds may differ from one's own.

### Judgement and Responsibility

- Organizational and time management skills to prioritize work, adjust to changing deadlines, and achieve objectives on time.
- Ability to simultaneously manage multiple projects in various stages of completion.
- Ability to work both independently with minimal supervision and as a team.
- Ability to handle effectively, and with tact, inquiries from elected officials, the public and other City departments.
- Ability to analyze and evaluate information to solve problems.

## CURRENT SALARY

### Electrical Engineer I

The current salary range (2EN) is \$58,944 - \$63,426 annually, and the resident incentive salary range for City of Milwaukee residents is \$60,712 - \$65,329 annually. Appointment above the minimum is possible based upon level of experience and other qualifications and is subject to approval.

### Electrical Engineer II

The current salary range (2GN) is \$64,839 - \$72,063 annually, and the resident incentive salary range for City of Milwaukee residents is \$66,784 - \$74,225 annually. Appointment above the minimum is possible based upon level of experience and other qualifications and is subject to approval.

## BENEFITS

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 <https://city.milwaukee.gov/der/benefits>.

## SELECTION PROCESS

**THE SELECTION PROCESS** will be job related and will consist of one or more of the following: an evaluation of related education, experience and accomplishments, written tests, interview, or other assessment methods. The Department of Employee Relations reserves the right to call only the most qualified candidates to oral, performance tests or personal interviews. Information from the selection process will be used to make a hiring decision. Selected candidates will be transferred and/or promoted to the position.

**INITIAL FILING DATE** - The examination will be held as soon as practical after the deadline listed above. 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 [www.jobaps.com/MIL](http://www.jobaps.com/MIL).

- Applications and transcripts should be submitted no later than the deadline listed above.
- If you would like assistance completing an application, please contact the Department of Employee Relations at (414) 286-3751 or [staffinginfo@milwaukee.gov](mailto:staffinginfo@milwaukee.gov).
- The Department of Employee Relations is located in City Hall, 200 E Wells St, Room 706, Milwaukee, WI 53202.

## CONCLUSION

*EEO=201*

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