

## TRAFFIC ENGINEERING TECHNICIAN III

The City of Harrisburg is accepting applications for the position of Traffic Engineering Technician III in the Department of Public Works, Bureau of Traffic and Engineering. This position involves skilled work of a journeyman level in the engineering and planning of installation and maintenance of the City's traffic signal system, street lighting systems and public works radio communication system. Work is performed under the direction of the Bureau Director, using independent judgment concerning methods of installation and maintenance. Employees have controlling responsibility for the development and implementation of concepts and general orders. The duties in this class are distinguished from other Traffic Engineering Technicians by some Crew Leader responsibilities. The Traffic Engineering Technician III is an emergency worker and may be required to report to work during emergencies and/or severe weather conditions.

Applicants must possess a high school diploma, or equivalent, and a minimum of two (2) years of experience in the lineman trade. Other combinations of training and experience which provide the required knowledge, skills and abilities may also be considered. A valid Pennsylvania Driver's License, Class B is required. Candidates must also hold the following IMSA certificates: Work Zone Safety Level I, Traffic Signal Field Level I and Traffic Signal Field Level II.

We offer a competitive salary package (\$37,913.91 which increases to \$44,604.59 after six months) plus excellent fringe benefits.

The City intends to fill this position as soon as possible. It will remain open until filled. If interested, please submit a cover letter, your resume, three employment references and salary history, without delay, to:

City of Harrisburg, Bureau of Human Resources  
The Rev. Dr. Martin Luther King, Jr. City Government Center  
10 N. 2<sup>nd</sup> Street, Harrisburg, PA 17101  
Phone: (717) 255-6475  
Email: [HR@cityofhbg.com](mailto:HR@cityofhbg.com) **(electronic submission preferred)**

The City of Harrisburg is an Equal Opportunity Employer.  
Eric Papenfuse, Mayor  
[www.harrisburgpa.gov](http://www.harrisburgpa.gov)

Job Title

Traffic Engineering Technician III - Department of Public Works - Bureau of Traffic Engineering

Definition

This position involves skilled work of a journeyman level in the engineering and planning of installation and maintenance of the City's traffic signal system, street lighting systems and public works radio communication system. Work is performed under the direction of the Bureau Director, using independent judgment concerning methods of installation and maintenance. Employees have controlling responsibility for the development and implementation of concepts and general orders. The duties in this class are distinguished from other Traffic Engineering Technicians by some Crew Leader responsibilities. The Traffic Engineering Technician III is an emergency worker and may be required to report to work during emergencies and / or severe weather conditions.

Equipment/Job Location

Work is performed in the Bureau of Traffic Engineering Facility and throughout the City of Harrisburg as necessary for repair and maintenance work. Work may involve the installation and maintenance of underground cables. Work involves knowledge and use of standard and special electrical tools such as voltmeters, ammeters, megger meters, signal generators and other electrical safety and maintenance equipment; hand tools such as brooms, ladders up to 40 ft., scaffolds up to 30 ft., rakes, shovels, hammers, wrenches, pipe wrenches, pipe benders, saws, screwdrivers, punches, chisels and occasional use of small power-operated tools such as drills, saws and grinders; chemicals and materials such as cleaning solvents, paint and paint cleaners, chlorine, polymers, acids, gases, fly ash, bottom ash and other hazardous or potentially hazardous chemicals and materials; safety equipment such as breathing apparatus, hard hat, eye protection, ear protection and other personal protection devices. Work also involves the use of a copier, blueprint copier and fax machine. Employee is subject to noise, vibration, fumes, odors, hazardous conditions, dust, poor ventilation in certain areas of the work environment and inclement weather. Some physical effort is required in climbing poles up to 100 ft., pulling slack from cable and removing street light mast arms. Duties typically are performed on weekdays from 7:30 a.m. to 4:00 p.m.; however, employees may work nights, weekends and holidays as required. This position is required to participate in the Bureaus rotating on-call program.

Essential Functions

Work involves, but is not limited to the following: develops diagrams, materials lists, lighting level calculations, cost estimates, work schedules, underground layouts, pole line construction, and traffic signal timing patterns. Assists maintenance personnel in the repair and adjustment of solid state and other equipment under the operational control of the Bureau (See "Equipment/Job Location" tool list). Removes junction and terminal boxes, steps and other appurtenance. Installs junction and terminal boxes, steps and other appurtenances. Half-taps multiple conductor communication cable in junction boxes. Pulls slack from cable using snatch block. Trouble shoots traffic signal system circuits by following schematic drawings. Locates trouble in overhead communication cable using test instruments such as voltmeter and milliammeter. Retapes wires in junction boxes and replaces cracked insulators to clear lines. Installs terminal and fuse strips.

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Essential Functions (Cont.)

Strips poles of mast arms, lighthouse and all connecting wires. Bolts new bracket and lighthouse to poles. Taps street light wires to the electric company's secondary power lines. Troubleshoots faulty street lights using sand ballasts. Replaces alley light fixtures and aluminum light poles with new units. Digs holes to set traffic signal standard into ground. Climbs poles (up to 100 feet). Installs steps, chairs and other appurtenances to poles. Installs underground cables (5 feet in depth). Trims trees (up to 30 feet) interfering with overhead line facilities. Remains alert and reacts appropriately to audio alarms on vehicular equipment. Maintains regular, punctual and predictable attendance. Reports to work and remains at work in a productive condition which includes not being under the influence or impaired by the use of alcohol and/or drugs. Establishes and maintains an effective working relationship with supervisors, co-workers and the general public. Completes all assignments in an efficient, consistent and timely manner.

Non-Essential Functions

Performs other reasonably related duties in equal or lower classification as assigned by supervisory personnel. Performs work as directed by supervisors in accordance with Article XXX, Job Classifications, Section 1 provision of the Basic Labor Agreement.

Required Knowledge and Abilities

- Comprehensive knowledge of the methods, practices, tools and equipment of the electrical/electronic technician and lineman trades.
- Good working knowledge of the national electrical code, life safety codes, alarm codes and other regulations that deal with design, operation and safety.
- Skill in the use, interpretation, application and modification of technical literature and drawings.
- Ability to apply the skills and knowledge to practical use and operation.
- Ability to understand and follow instructions.
- Ability to react quickly and appropriately to alarms and hazardous situations.

Qualifications

Automatic upgrade meeting requirements of Traffic Engineering Technician II and satisfaction of Traffic Engineering Technician III requirements.

Valid Pennsylvania Commercial Driver's License, Class B

IMSA Work Zone Safety Level I

IMSA Traffic Signal Field Level I

IMSA Traffic Signal Field Level II