


**Engineering Technician III (1 Position)  
Equipment Repair Technician**



<b>IPR Number:</b>	<b>44372</b>	<b>Union Position:</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Position Number:</b>	<b>PW013-23-10-402-41-01</b>	<b>Shift:</b>	<b>8:00 am – 4:30 pm Monday – Friday</b>
<b>Opening Date:</b>			
<b>Closing Date:</b>		<b>Salary:</b>	<b>\$3,920 – \$6,775 *</b>

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**Office/Central Bureau/District/Work Address:**

Office of Planning and Programming / Bureau of Programming / 126 East Ash Street, Springfield, Illinois

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**Position Purpose:**

This position is accountable for the maintenance and repair of all traffic monitoring equipment ranging from sophisticated state-of-the-art solid state telemetered permanent equipment to portable electrical devices which are used in the Illinois Traffic Monitoring Program (ITMP).

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**Qualifications:**

**Position Requirements:**

- Education/Experience
  - Completion of two years of college in civil engineering technology, pre-engineering, or a job related technical/science curriculum plus thirty months of engineering experience; **OR**
  - Six years of engineering experience
- Ability to lift 50 pounds or more as well as perform other arduous labor-intensive activities in order to maintain electrical systems both on and off the roadway on even terrain. This includes carrying equipment and supplies, climbing ladders, bending, and stooping on uneven terrain.
- Valid driver's license
- Frequent statewide and occasional out-of-state travel with overnight stays

**Position Desirables:**

- Proficiency working with a variety of electronics and electronic test equipment
  - Ability to complete simple electronic repairs, diagnose electrical problems, and install electronic equipment
  - Familiarity with Microsoft Office, particularly Access, Excel, and Word
  - Knowledge of electronics and component level diagrams
  - Strong oral and written communication skills
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**How to Apply/Remarks:**

Technical Applications PM1080 (rev 8/23/19) must be received by the Bureau of Personnel Management, Room 113, 2300 South Dirksen Parkway, Springfield, IL 62764 (Fax# 217/557-3134) or emailed to [DOT.CO.BPM.EmploymentApplications@Illinois.gov](mailto:DOT.CO.BPM.EmploymentApplications@Illinois.gov) by 4:30 pm on the closing date listed above. Applications will not be accepted after this date and time.

**Agency Contact:** Bureau of Personnel Management, 217/782-5594

To be considered for a permanent position within IDOT, you must either be a US citizen or a non-citizen with permanent work authorization.

Only education/coursework and experience listed within the application will be considered for determining eligibility for this position.

Please be advised that if a high volume of applications is received, the applications may be screened to establish a smaller pool of applicants for interview. The screening will be based on the information contained in the application.

Applicants will be notified in writing to schedule interviews.

\*Individual salary offers are computed based on an applicant's qualifications and experience relative to the posted title as well as internal equity of staff in the organizational unit.

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**ILLINOIS DEPARTMENT OF TRANSPORTATION  
POSITION DESCRIPTION**

<b>DATE:</b>	March 1, 2020	<b>WORKING TITLE:</b>	Equipment Repair Technician
<b>POSITION CLASSIFICATION:</b>	Engineering Technician III	<b>OFFICE/BUREAU:</b>	Office of Planning and Programming / Bureau of Programming
<b>POSITION NUMBER:</b>	PW013-23-10-402-41-01	<b>REGION/DISTRICT:</b>	n/a

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***Position Purpose***

This position is accountable for the maintenance and repair of all traffic monitoring equipment ranging from sophisticated state-of-the-art solid state telemetered permanent equipment to portable electrical devices which are used in the Illinois Traffic Monitoring Program (ITMP).

***Dimensions***

Equipment:	Permanent: \$2.0 Million
	Portable: \$1.2 Million
Parts/supply inventory:	\$120,000

***Nature and Scope***

This position reports to the Equipment Repair Manager. No subordinates report to this position.

This position is accountable for the maintenance and repair of all traffic monitoring equipment ranging from sophisticated state-of-the-art solid state telemetered permanent equipment to portable electrical devices which range from the state-of-the-art microprocessor-based computer dependent equipment to discrete component, solid state telemetered devices.

The greatest challenge to the incumbent is to provide problem diagnosis and repair of a diverse variety of traffic monitoring devices, each with unique design and operating characteristics. Typical problems are detecting malfunctioning equipment and diagnosing and repairing the problem; coordinating district traffic counting equipment and supply needs for the traffic counting season; coordinating receipt of equipment orders in the expenditures database and ensuring enough repair parts are available for timely repairs of traffic equipment; and evaluating new equipment on the market for design, durability, and operational characteristics.

The incumbent repairs and maintains traffic monitoring equipment; makes field visits for repairs; maintains an inventory of repair parts, supplies, and traffic counting equipment; provides advice and recommendations concerning the evaluation and operations of portable equipment; and provides technical advice concerning the design and installation of permanent equipment. S/He will assist the Equipment Repair Manager in the installation of the permanent equipment. The incumbent will use sophisticated repair equipment and parts supplied by the equipment manufacturer to make repairs and perform preventive maintenance to the large inventory of counting equipment in use throughout the districts. S/He has the responsibility to resolve equipment malfunctions and to train district traffic staff on traffic equipment operations. S/He must maintain an inventory of equipment, parts, and supplies for the operation, repair, and maintenance of the permanent and portable equipment. S/He determines which parts are needed for repairs and gathers comparable price quotes from vendors to assist in the purchasing process. S/He creates work orders for repairs at permanent traffic count sites.

The incumbent is given latitude to accomplish responsibilities and refers matters of a non-routine or sensitive nature to the Equipment Repair Manager with recommendations for resolution. S/He is constrained by applicable departmental, state, and federal policy, practices, and guidelines.

In performing the functions of this position, the incumbent maintains internal contact with other members of the Data Management Unit and with district traffic staff for maintaining an effective and safe use of traffic monitoring equipment. S/He has external contact with traffic equipment vendors in order to keep current with the application of recent technology of traffic monitoring and counting equipment. Frequent statewide and occasional out-of-state travel with overnight stays is required as the incumbent travels frequently to continuous counting sites (CCS) and/or district offices.

The effectiveness of this position is measured by the incumbent's ability to provide accurate, consistent, and continued operation of the traffic equipment needed to support the ITMP.

**Principal Accountabilities**

1. Maintains and repairs the portable and permanent traffic monitoring equipment used to support the ITMP.
2. Maintains an adequate inventory of parts and supplies needed to sustain the ITMP.
3. Performs repairs and preventative maintenance on Illinois Department of Transportation's large inventory of traffic counting equipment and CCS to sustain the Vehicle Classification Program.
4. Keeps current with the rapidly changing state-of-the-art technology applied to traffic monitoring and counting equipment.
5. Participates in the installation of new traffic monitoring equipment and conducts all necessary tests to ensure proper equipment operation.
6. Instructs district traffic staff on the operation and maintenance of traffic monitoring equipment.
7. Performs duties in compliance with departmental safety rules. Performs all duties in a manner conducive to the fair and equitable treatment of all employees.
8. Performs other duties as assigned.

**Subordinates of this position**

Position Classification	Position Number	Working Title	Authorized Identical
N/A			

**Supervisor of this position**

Immediate Supervisor Position Classification: Engineering Technician IV

Working Title: Equipment Repair Manager

Position Number: PW014-23-10-402-41-01

**Position Requirements**

- Education/Experience:
  - Completion of two years of college in civil engineering technology, pre-engineering, or a job related technical/science curriculum plus thirty months of engineering experience; **OR**
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- Ability to lift 50 pounds or more as well as perform other arduous labor-intensive activities in order to maintain electrical systems both on and off the roadway on even terrain. This includes carrying equipment and supplies, climbing ladders, bending, and stooping on uneven terrain.
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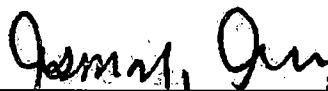
**Position Desirables**

- Proficiency working with a variety of electronics and electronic test equipment
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**Agency Approvals**

  
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Bureau Chief, Personnel Management

  
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Secretary, Department of Transportation