



**State
Police**

KATHY HOCHUL
Governor

KEVIN P. BRUEN
Superintendent

POSTING DATE: 04/22/2022

APPLICATION DUE BY: 05/13/2022

Title: Radio Engineer
Starting Salary: \$83,550.00

Location: Communications Section
Division Headquarters
Albany County

Grade: 24

Employment Type: Full Time

Work Days: Monday through Friday

Union Representation: PS & T

The Radio Engineer, SG-24, assigned to the New York State Police Communication Section provides technical support on any emergency or drill; performs on-scene setup of technical systems aboard emergency command vehicles or other temporary communications facility. This position performs and oversees scheduled and non-scheduled general maintenance on emergency command vehicles and all associated equipment; maintains, repairs, tests, configures, and installs all fixed mobile, or portable components of land mobile radio communications equipment. The Radio Engineer position is responsible for performing land mobile radio communications evaluations statewide; operates essential test equipment; maintains liaison with vendors for preventative maintenance and repair services; reports any deviations from the contracts; programs radios; responds to call emergencies; builds radio files; research and tests equipment; and travels to regional sites to address any issues that arise.

DUTIES:

- Responsible for engineering, technical support and analysis for the Division of State Police and partner agencies. This includes the development of coverage maps, Radio Frequency propagation studies, and interference and intermodulation studies using computer modeling and test equipment to propose tower siting, equipment specification, and components required to provide radio coverage while avoiding interference.
- Collaborates with State Police peers, including sworn and nonsworn personnel, Division of Homeland Security and Emergency Services engineers, State Agency peers, as well as County and Federal Communications Engineers and contractors on system design and integration, antenna and radio selections, interference, joint operations, site co-locations and other functions across the full spectrum of planning, deploying and operating public safety communications systems.

DUTIES (continued):

- Responsible for deploying mobile command vehicles and mobile communications systems throughout the State to provide command post voice and data communications, temporary area and event-wide radio networks, temporary radio sites, and patching or interconnection of disparate communications systems on a regular basis.
- Responsible for providing periodic preventative and remedial maintenance on radio, microwave, satellite, and networking equipment, and develop test procedures and performance standards for such equipment and associated antenna, cable, antenna system and IP and telephone network equipment.
- Maintains, troubleshoots, and repairs electric equipment, software, and configuration, and supporting systems for radio, data, and satellite equipment; and specifies maintenance procedures and oversees contractor work.
- Develop, understand, and interpret technical standards for the operation and maintenance of emergency communications systems and assets including the engineering and technical principals of operation, as well as practical and operational impacts of such standards.
- Responsible for monitoring radio system status and radio system use, for compliance with agency and Federal requirements, as well as for improper outside use, including deployment of systems to capture and record radio broadcasts, deployment of direction-finding equipment to trace interference and improper or unauthorized users of New York State Police or other law enforcement radio systems.
- Provide guidance and advise New York State Police on state-of-the-art Land Mobile Radio, dispatch and voice data systems, test equipment and software, including comparisons of alternative options and implications for State Police operations and comparability with partner systems.
- Responsible for the set-up, management, and design of IP radios for radio, voice, and data systems, including tower sites, dispatch locations and temporary command posts.
- Possess authoritative knowledge of current and emerging technologies and applications for public safety communications, as well as commercial systems which may interface with, augment, interfere or conflict with public safety systems.
- Operate, deploy, maintain, repair, and recommend deployable assets for land mobile radio, satellite, telecommunications, fixed wireless, and other systems.
- Be familiar with and observe county consortium activities, FCC license action and liaises with County and State partners on local and regional communications activities to provide New York State Police with situational awareness of changes in interoperability environment that may impact State Police operations.

DUTIES (continued):

- Develop multi-agency Tactical Interoperable Communications plans on a regular basis for both planned and unplanned events involving State, Federal and local partner agencies and systems.
- Travel extensively throughout the State to support emergency response activities.
- Deploy regularly throughout the State to support operations during law enforcement response to disaster activities.

MINIMUM REQUIREMENTS:

- Six (6) years of experience as a Radio System Engineer involving the development, deployment, operation, and maintenance of wireless land mobile radio or other wireless communication systems.

An Associate's Degree in Electrical Engineering, Electronics Engineering, Applied Engineering, Physics, or related field may substitute for two (2) years of general experience.

A Bachelor's Degree in Electrical Engineering, Electronics Engineering, Applied Engineering, Physics, or related field can substitute for four (4) years of general experience.

OR

A Master's Degree in Electrical Engineering, Electronics Engineering, Applied Engineering, Physics, or related field can substitute for five (5) years of general experience.

Resumes will be evaluated to determine whether candidates will proceed to the interview phase of the process.

This position does not require that the candidate has taken and passed a NYS Civil Service examination, or currently holds a qualifying position within the NYS Civil Service System. This position will be filled through a resume review and interview process.

HOW TO APPLY:

Kindly submit via U.S. Mail, FAX, or E-Mail a letter of intent and complete resume to:

Ms. MaryEllen Tedesco, Director of Human Resources
Attention: Civilian Hiring Unit
New York State Police
Building 22
1220 Washington Avenue
Albany, NY 12226
Phone: 518-457-3840
Fax: 518-485-2293
Email: personnel@troopers.ny.gov