

HENNEPIN COUNTY MINNESOTA

STEM

works here



Electrician
Traffic signal electrician

Work on:
Construction electricity
Electrical systems
Electrical wiring diagrams/plans
Mechanical systems
Meters

Knowledge of:
Conduit bending
Electrical engineering
Mathematics
Physics
Welding



\$106,991
Annually



Operations



Percent of my day
100% in the field

“The most rewarding aspect of my career is being able to solve an issue that the public is having with one of our signal systems. It makes my day to know that I was the one to correct an issue that was affecting someone else’s day negatively.”

- Joshua Villeneuve

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Electrician Traffic signal electrician

Why an electrician?

Behind every traffic signal system on county roads, there is an electrician who makes it work. Electricians provide critical services by maintaining essential traffic signal operations of the road network to ensure the safety and orderliness of those traveling on county roads.

What do traffic signal electricians do?

Traffic signal electricians at Hennepin County work on various traffic systems, including traffic signals, roadway lighting, video detection, rectangular rapid-flashing beacons and others. They are responsible for installing and performing maintenance work on various electrical, solid state, electronic and electromechanical traffic control devices.

Traffic signal electricians inspect and test systems to ensure they meet technical and safety specifications and make necessary software and hardware enhancements for optimal performance. Electricians are also responsible for emergency repair requirements.

Who makes a good electrician?

Organizational, technical and safety skills are a must for an electrician. These skills are critically important when dealing with electricity. High quality electricians are comfortable working in situations that require analytical thinking to troubleshoot problems, determine the cause and successfully navigate the complex problem to find a solution.

Ideal candidates are highly proficient in mathematics and physics to be accurate and precise with measurements and calculations. Electricians can manage multiple projects independently and work effectively as part of a team with strong communication skills to perform tasks accurately and efficiently to deliver the best results. They also have a learning mindset, willing to be able to stay up on the latest technologies.

For more information

Human Resources

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