

HENNEPIN COUNTY MINNESOTA

STEM

works here



Engineering technician
Highway engineering, operations and surveys

Work on:

CAD drawings
Data management and collection
GPS and GIS mapping
Surveying and inspections
Traffic system management

Knowledge of:

Engineering software
Engineering tools
GIS
Mathematics
Science principles



\$44,097.60 - \$66,405.71
Annually



Operations
Transportation Planning
Traffic signal
Bridge Design
Construction



Percent of my day

80% field | 20% desk

“My career as an engineering technician assistant gives me both a lot of opportunities to work with cutting edge traffic technology while seeing from a ground view perspective how industry changes are making our traffic operations safer and more efficient.”

- Quanzakari DeChiara-Crillion

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Why an engineering technician?

Engineering technicians are problem solvers. Whether it's working to design a new corridor, replace an old bridge, conduct field studies or improve traffic operations, being an engineer technician means working to provide a safe and seamless traveling experience for the public.

What do engineering technicians do?

Engineering technicians at Hennepin County help plan, design, build and maintain highways, bridges, utilities, and traffic signal systems.

Engineering technicians, working under the charge of a licensed civil engineer, perform various duties in office and field settings to ensure tasks and projects are done correctly and remain on schedule.

Their work may include preparing plans and drawings using CAD and geographic information systems applications. They also work in the field to conduct location surveying, perform mathematical or geometric calculations, gather data and inspect construction activities.

Engineering technicians also review technical documents to ensure infrastructure designs are built correctly. Additionally, they will work in laboratories performing quality control tests on construction materials, keeping careful records of their findings.

Who makes a good engineering technician assistant?

Strong problem solving, critical thinking, mathematics and engineering skills are the hallmark of quality engineering technicians assistants. Observational and decision-making abilities are also important qualities to demonstrate.

Candidates who display a technical competence to quickly adapt and learn the latest engineering software and hardware to effectively complete their work are best suited to succeed in this role.

For more information

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