

A

is for...



m1 DEPARTMENT OF
TRANSPORTATION

Aeronautics

MnDOT is the state-level regulator for *all aircraft* in Minnesota, including large airplanes and drones.

Drones are considered aircraft and are highly regulated, even the ones you might have at home. MnDOT uses drones to inspect bridges, view remote plots of land and show aerial views of construction projects. Minnesota has 135 publicly-owned airports and 15 sea plane bases.

MnDOT Careers:

- Aviation licensing
- Aviation safety
- Drone specialist
- Pilot



B is for...



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Bicycle and Pedestrian Transportation

MnDOT oversees a statewide transportation system that *includes people who walk and ride bicycles.*

We build and maintain bicycle and walking trails around the state to connect people locally and regionally. We provide safe and comfortable facilities for people of all ages and abilities. Can you help us reach our goal by increasing the number of trips you take by bicycle?

MnDOT Careers:

- Pedestrian and bicycle coordinator
- Urban planning



C

is for...



m1 DEPARTMENT OF
TRANSPORTATION

Construction Inspector

Construction inspectors make sure that all parts of a project are done *correctly and safely*. Work zone safety inspectors make sure that the construction site is safe for workers and other people who might come on the site. State inspectors must sign off on all parts of a project before it is complete to ensure public safety. Minnesota's bridges are inspected regularly by bridge engineers who often use drones to help them see underneath the bridges.

MnDOT Careers:

- Bridge engineer
- Construction inspector
- Project safety manager



D

is for...



m1 DEPARTMENT OF
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Disadvantaged Business Enterprise Program

MnDOT's *Disadvantaged Business Enterprise (DBE) Program* was started by the federal government to reduce discrimination in highway projects and to make sure that small businesses benefit from state projects.

The goal is to give small businesses owned by women or minorities a fair opportunity to compete for transportation contracts.

MnDOT Careers:

- Communication specialist
- DBE specialist
- Outreach coordinator



E is for...



m DEPARTMENT OF
TRANSPORTATION

Engineering

MnDOT engineers design and build Minnesota's multimodal transportation system. Civil, mechanical, geotechnical and electrical engineers are all popular within the industry. At MnDOT, you'll find engineers who specialize in the following:

- Aviation
- Bicycle and pedestrian infrastructure
- Bridges
- Connected and automated vehicles
- Safety
- Structures
- Traffic

MnDOT Careers:

- Bridge and architectural drafter
- Engineer
- Engineering specialist



F is for...



m DEPARTMENT OF
TRANSPORTATION

Freight

MnDOT is dedicated to the safe and efficient *movement of freight and commodities* within Minnesota. Freight is goods moved by truck, train, ship or aircraft. Commodities are raw materials like copper or grains.

Ports on Lake Superior and the Mississippi River provide access to national and international markets. Rail lines move goods throughout the state and beyond. Trucks transport goods to the stores where we shop.

MnDOT Careers:

- Freight and rail planner
- Permit technician
- Vehicle inspector



G

is for...



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Government Affairs

MnDOT is a state agency that works with the *federal and local governments*. MnDOT Government Affairs staff work with the Governor's Office, state legislature, Congress, tribal governments, and interest groups to develop and support policies that will improve transportation operations and services, assist with transportation-related decisions, and answer questions from the public.

MnDOT Careers:

- Federal affairs manager
- Lawyer
- Policy analyst



H

is for...



mn DEPARTMENT OF
TRANSPORTATION

Historic Bridges

MnDOT preserves historic bridges throughout the state. The MnDOT Historic Bridge program was created to preserve Minnesota's historic bridges and preserve our engineering heritage.

Perhaps you have walked across the Stone Arch Bridge in Minneapolis or watched the lift bridge go up in Stillwater or walked under the covered bridge in Zumbrota. These are all examples of historic bridges MnDOT maintains and preserves.

MnDOT Careers:

- Historic bridge program coordinator
- Program historian





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Intelligent Transportation Systems

The *Intelligent Transportation Systems (ITS) unit* focuses on new technologies and systems for Minnesota's transportation system. They work to achieve a safe, accessible, efficient multimodal transportation system throughout the state. A multimodal transportation system includes roads, bicycles, buses, trains, airplanes, and more. MnDOT traffic engineers research and test the latest technology and ideas to keep us moving.

MnDOT Careers:

- Project manager
- Traffic engineer
- Traffic researcher



J

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Jobs Recruiter

MnDOT recruiters are driven to *find talented and innovative employees* for Minnesota's nationally recognized transportation system. Recruiters actively partner with hiring managers, supervisors, and human resources team members. They understand business needs and create strategic recruitment plans for MnDOT's workforce.

They work to build the best team of diverse experts in the transportation industry to ensure that Minnesota thrives.

MnDOT Careers:

- Recruitment specialist
- Staffing representative



K is for...



m1 DEPARTMENT OF
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Know Your Route

MnDOT invests a lot of time and money into making sure that people are aware of construction and weather-related road conditions on Minnesota roads. You can *stay up-to-date on construction projects* that may impact your travel route by signing up for email alerts, calling 511, visiting 511mn.org.

Don't drive yet? Tell your parents so that you're not late to your next soccer tournament or stuck in traffic on the way to a friend's house.

MnDOT Careers:

- Communication specialist
- Data analyst
- Traffic management



L

is for...



Land Management

MnDOT's *Office of Land Management* acquires right of way (strip of land used for transportation-related purposes) for construction projects and provides a wide range of real estate services. They also:

- Coordinate with the electric, water, phone, cable and other companies to put utilities below and above ground
- Provide accurate maps and land surveys
- Collect aerial photography to support planning and design of MnDOT projects

MnDOT Careers:

- GIS technician
- Land surveyor
- Photogrammetrics specialist
- Real estate specialist



M

is for...



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Mapping

The *Geographic Information & Mapping (GIM) unit* is responsible for preparing and maintaining MnDOT's mapping data. The data is used to develop and maintain Minnesota's official maps. MnDOT produces the following maps:

- Official State Highway Map
- Maps for Minnesota's 87 counties and 853 cities
- Maps for 1,782 townships, and street maps for the metro area and other regions in the State

MnDOT Careers:

- Bicycle mapping
- GIS support
- Research analyst
- State mapping



N

is for...



mn DEPARTMENT OF
TRANSPORTATION

Natural Resources

MnDOT *protects and preserves* the quality of our environment, supports healthy communities, conserves natural resources and encourages economic growth. Programs include:

- Roadside plant management: creates safe travel, improves water quality and provides nice landscapes
- Environmental modeling and testing: improves air, water, and soil quality and reduces noise from traffic
- Scenic byways: highlights roads that offer scenic, cultural or historic significance

MnDOT Careers:

- Archaeologist
- Erosion control specialist
- Historian
- Hydrologist
- Landscape architect





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Ombudsman

An *Ombudsman* is a neutral, informal and independent resource to help the public and MnDOT resolve issues that they have been unable to resolve through normal procedures.

Let's say that your family and neighbors oppose a traffic change that MnDOT is planning. An Ombudsman can work with your family and MnDOT staff to ensure both sides are heard and creative problem-solving takes place.

MnDOT Careers:

- Customer response coordinator
- Ombudsman



P is for...



m DEPARTMENT OF
TRANSPORTATION

Planning and Programming

MnDOT plans for *all the ways people and goods move throughout Minnesota*—individually for each transportation mode and together as a multimodal transportation system.

The MnDOT Planning and Programming unit researches, writes, reviews and manages plans and programs.

MnDOT Careers:

- Transportation analyst
- Transportation planner





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Quality Electrical Services

Electrical Services manages traffic-related electrical systems on MnDOT's roads. Electricians work on lighting systems, traffic signals, and electrical poles. Dispatchers receive trouble calls and send technicians to make repairs. Transportation generalists operate trenchers, fork lifts, aerial trucks, cranes and more. Locators find and mark underground electrical assets. Integrators set up and manage traffic cameras.

MnDOT Careers:

- Dispatcher
- Electrician
- Integrator
- Locator



R is for...



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Regional Transportation Management Center

The *Regional Transportation Management Center* is where the State Patrol, MnDOT Maintenance, and MnDOT Freeway Operations work together to quickly respond to crashes, stalls and other freeway incidents. Traffic cameras are placed on freeways statewide and MnDOT staff watch them from the control room. When they see an incident, they zoom in to see how best to help. The Freeway Incident Response Safety Team and State Patrol are dispatched depending on the need.

MnDOT Careers:

- Highway maintenance
- RTMC dispatcher



S is for...



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Safe Routes to School

Safe Routes to School is a partnership between the state, nonprofit organizations, educators, health professionals and local governments to provide resources that encourage walking and bicycling to school.

The vision for Minnesota is that we become a state where all students can walk and bicycle on routes that are safe, comfortable and convenient. This program makes that possible by addressing issues and barriers.

MnDOT Careers:

- Safe Routes to School coordinator



T

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m DEPARTMENT OF
TRANSPORTATION

Training and Development

Training & Development Specialists are responsible for assessing training needs, and for developing and coordinating employee training.

Video Production Specialists are responsible for video production to assist with employee and public training and communication efforts as well as provide technical event support such as streaming live video.

MnDOT Careers:

- Training and development specialist
- Video production specialist



U

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Utility Coordination

Utilities such as *water, gas, electric and internet* run below and above ground along our streets and highways.

When construction crews do road work, they coordinate with others to ensure minimal service disruptions. When major projects occur, MnDOT collaborates with utilities and local governments to incorporate upgrades to their infrastructure into the project to save money.

MnDOT Careers:

- Permit writer
- Utilities engineer
- Utility transmission route coordinator



V

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Vehicle Fleet and Maintenance

MnDOT owns and maintains *a fleet of vehicles* around the state:

- Automated road and pavement condition survey vans
- Bulldozers
- Cranes
- Dump trucks
- Excavators
- Loaders
- Pickup trucks
- Snoopers (used to inspect the under-side of bridges)
- Snowplows
- Street sweepers
- Tractors
- Trailers

MnDOT Careers:

- Fleet services manager
- Heavy equipment operator
- Mechanic
- Welder



W

is for...



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Water Quality

MnDOT *tests and monitors water quality* around the state and along our highways. We use a variety of methods:

- Automated stormwater sampling to provide data for stormwater runoff analysis
- Ground water well sampling to test for contamination
- Lake/pond monitoring to determine water depths
- Wetland monitoring
- Sediment sampling

MnDOT Careers:

- Air and noise specialist
- Environmental monitoring specialist
- Scientist



X

is for...



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TRANSPORTATION

Railroad “X-ings”

MnDOT oversees the 4,000+ railroad grade crossings (or x-ings) on all roadways in Minnesota. The safety of road users at railroad grade crossings has improved, but motorists, especially young drivers, are encouraged to “Stop! Trains Can’t.”

In the early 1990s, there were more than 100 automotive crashes at rail crossings per year. Currently, the state records about 45 crashes per year. Be safe!

MnDOT Careers:

- Rail safety inspector
- Track safety manager



Y

is for...



m DEPARTMENT OF
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Youth Engagement STEM and Intern Programs

MnDOT's *STEM Education and Outreach program* partners with organizations and educators to provide high-quality activities and tools that promote science, technology, engineering and mathematics to students of all ages.

MnDOT offers the Phoenix High School Internship Program, the SEEDS Student Worker Program, and a Graduate Engineer and Land Surveyor Program.

MnDOT Careers:

- Communication specialist
- Public engagement coordinator



Z is for...



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Work Zone Safety

The MnDOT *Work Zone Safety Awareness Program* is a public education program promoting safe driving in highway work zones. Work zones are areas where you see workers, flaggers and surveyors in bright yellow-green or orange vests.

MnDOT provides training materials to guide motorists on what they should do around snowplows, work zones and other new and unfamiliar driving situations.

MnDOT Careers:

- Communication specialist
- Training coordinator

