Are you a University of Minnesota civil engineering student interested in exploring a career related to transportation? Consider applying for an internship through the 2022 Civil Engineering Student Worker Program (CEP)!

As part of the program, you’ll spend the summer as an intern at the Minnesota Department of Transportation (MnDOT) gaining hands-on professional experience. Participants work on transportation-focused projects and are provided with mentoring, training, and development opportunities.

Positions will be available in several MnDOT offices, working in areas ranging from design, construction, and traffic to water resources and land surveying. Descriptions of previous internship positions are on the back.

**Eligibility**
- Applicant must be an undergraduate student currently pursuing a B.S. in civil engineering at the University of Minnesota Twin Cities or Duluth.
- No prior transportation-related work experience is required.
- Applicant must be legally eligible for employment in the United States. Proof of your eligibility to work in the United States will be required.
- Priority will be given to students completing their junior year, but sophomores may also apply.
- Priority will be given to applicants with a GPA of 3.0 or better.
- The program is open to all qualified applicants. Members of diverse groups are encouraged to apply.

**How to Apply**
A complete list of required application materials and instructions are available on the CTS website at www.cts.umn.edu/mndotinternship.

Applications must be submitted via [www.mn.gov/careers](http://www.mn.gov/careers), job ID 48722.

Applications will be accepted until **Friday, January 28, 2022**. For priority consideration, please submit your application by **Tuesday, November 30, 2021**.

**More Information**
For more information about the program, please visit the CTS website or contact Chelsea Arbury Prorok at arbur001@umn.edu.

[www.cts.umn.edu/mndotinternship](http://www.cts.umn.edu/mndotinternship)
Previous Internship Position Descriptions

**Bridge Maintenance and Inspection Unit, Metro Division:** The intern helped with bridge safety inspection (routine and fracture critical), damage inspection (bridge hits) as they occurred, sign structure inspection, retaining and noise wall inspections, and updating database quantities within our SIMS (Structure Information Management System). SIMS is a computer-based inspection database for Minnesota's bridges. This job entailed working in confined and high spaces.

**Bridge Office, Hydraulics Unit:** The intern was exposed to and assigned tasks related to the following: river mapping and 3D underwater scanning (including operating a boat and trailer), basic hydrology and hydraulics, drainage computer applications (specifically assisting with the HydInfra database), drainage standards, and specifications and manuals.

**Bridge Office, Bridge Ratings Unit:** The student was exposed to a range of bridge load rating activities with the goal of broadening their experience as much as possible. This involved learning the general bridge load rating process, using the software to perform the bridge load rating calculations, and reviewing related inspection reports.

**Metro Design, Metro District:** The intern was involved with the scoping, pre-design, and final design phases of project development, which included applying MnDOT design policies and standards in the 2D/3D modeling of highway infrastructure to be presented on geometric layouts and construction plans. They also coordinated with other functional groups in the department as well as public/private stakeholders on project scoping, scheduling, documentation, and quality control.

**Metro Traffic Work Zones, Metro District:** The student assisted the Metro Traffic modeling engineer with traffic monitoring of Metro District's construction projects. This effort entailed obtaining and analyzing information obtained from Metro freeway detectors and cameras, and also use of ClearGuide/Here vehicle probe information. This position also assisted in evaluation of MnDOT's Queue/Delay modeling being developed by reviewing impacts/effects of past Metro construction projects.

**Office of Environmental Stewardship, Modeling and Testing Unit:** The intern helped with a wide variety of field sampling, including oil tank samples, water and air quality sampling, and paint and other material samples. The intern also had the opportunity to assist with conducting noise measurements at specified locations throughout the state. The intern assisted with the development of reports and studies using Microsoft Word and Excel. They also used traffic noise models to determine current and future noise levels.

Please note that all of the positions in this internship program will be located in the Twin Cities metro area. If you are interested in a position with a MnDOT District in Greater Minnesota, please apply at mn.gov/mmb/careers and search for job ID 48722.

**2021 Career Fair Dates and Locations**

- September 14, 2021, 11 a.m. – 3 p.m., Engineering School Open House, Engineering Building Courtyard, UMTC
- September 16, 2021, 10 a.m. – 2 p.m., UMD STEM Fest, Virtual on Handshake
- September 21, 2021, 12 p.m. – 6 p.m., College of Science and Engineering Career Fair
- September 24, 2021, 10 a.m. – 3 p.m., Carlson School Career and Internship Fair, Virtual on Handshake
- September 29, 2021, 10 a.m. – 3 p.m., CLA Internship and Career Fair, Virtual on Handshake
- October 29, 2021, Government and Nonprofit Career Fair, Coffman Memorial Union Building, Great Hall, UMTC

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