

# DOTSC Internship Opportunity

The DOT Support Center (DOTSC) builds engineering design experience employers seek. DOTSC is a partnership with the Upper Great Plains Transportation Institute, NDSU, and the NDDOT.

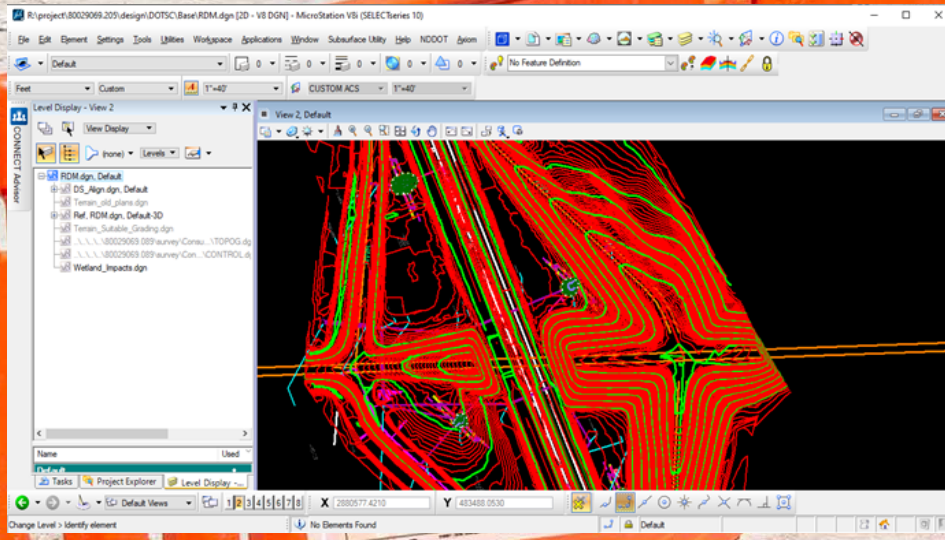
**Student Design Assistant:**  
**Fall, Spring, & Summer Jobs**

Civil / Construction Engineering Undergrad Students (Sophomore / Junior preference)

NDSU Handshake Application:  
<https://career-advising.ndsu.edu/handshake/>,  
Search "DOTSC"

**Hiring Year-Round!**

Wages vary \$17-20/ hour depending on grade level and experience. DOTSC is located on 4th floor of QBB.



Students learn a wide range of practical engineering skills including:

- Engineering Calculations: geometrics, cost estimates, & quantities
- Report Writing and Engineering Documentation
- Microstation Drafting

In addition, students are educated on current Design & Construction practices for NDDOT projects. Student Design Assistants are trained in geometric highway design through real world transportation projects.

Students are required to work 12-20 hours per week during the semester. Ideal candidates would possess leadership, time management skills, be highly motivated, detail oriented, and possess logical decision making and analytical skills.

Contact info:

**Brady L Haussler**

DOTSC & TTRI SECTION LEADER

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## HANDS – ON TRAINING FOR STUDENT ENGINEERS

The Department of Transportation Support Center (DOTSC), in partnership with UGPTI and NDSU, puts engineering students to work on real-world transportation designs and engineering issues. Student teams work under the direction of transportation engineers to prepare studies, plans, and estimates for transportation projects.

### The Design Section Offers:

**Experience.** Students work on real-world projects while learning:

- The ND Department of Transportation project development and design process
- The roles and responsibilities of transportation engineers
- Design skills learned through producing designs and reports for current NDDOT projects

**Flexibility.** The center operates under normal work day hours. Students work 12 to 20 hours per week during the semester depending on their school schedule. In the summer, 40 hours are worked per week.

**Convenience.** DOTSC is located in the Quentin Burdick Building on NDSU's campus.

**A Head Start.** Student design assistants are in demand by the NDDOT, other departments of transportation, engineering consultants, and other employers. Employers recognize that DOTSC students have skills that set them apart from other applicants. Job offers and starting pay reflect this increased demand.



### As a DOTSC assistant, you will:

#### Learn MicroStation and Geopak Design Software-

Design software used by a majority of state DOTs

#### Work on Environmental Documents

Write reports that explore options for projects and help upper management make decisions on how project should proceed.

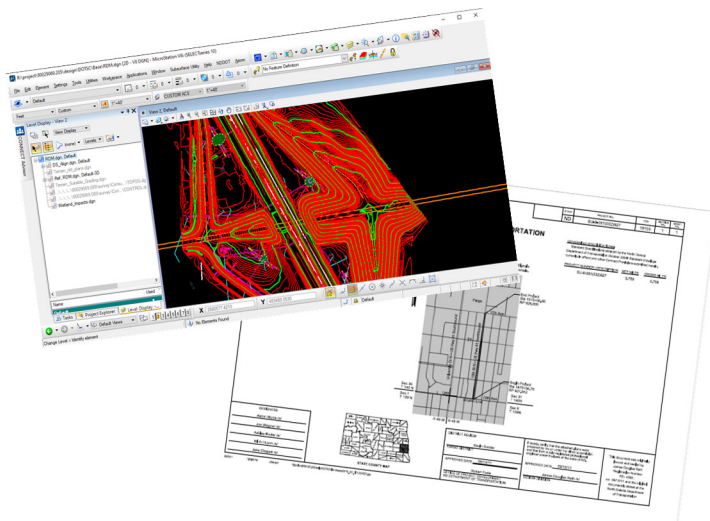
#### Develop Plan Sheets

Put together a complete set of plans to be used for construction in the field. Projects include:

- Preventative maintenance projects—Extend pavement life and increase ride quality.
- Structural overlays—Provide increased load carrying capacity.
- Concrete pavement repair projects—rehabilitate concrete pavements by replacing bad sections of concrete and cutting in load transfer devices
- Reconstruction projects—Completely remove the existing road way and build a new roadway

#### Shadow an Engineer

To provide a balanced look at all the opportunities that NDDOT has to offer, students that work during the summer may shadow a field engineer for a week and take tours of active construction projects.



### Current Projects

#### US 2 Intersection Improvements - US 85 Williston to MT Border

- Installation of turn lanes, bypass lanes, illumination or destination lighting, and other intersection improvements.



#### I-94 PCC Pymt & Ramp Revisions from I-29 to 25th St - Fargo

- Adding an auxiliary lane from the I-29 SB to I-94 EB entrance ramp (tri-level) to the 25th St exit and expanding the exit ramp to a two lane exit to address congestion.

#### US 52 Passing Lanes & Drainage Improvements - Minot

- Adding and extending passing lanes to improve operations along WB and EB US 52 from Minot to north of Kenmare.

#### ND 24 & BIA 31 Roundabout - Fort Yates

- Intersection improvements to address speed, congestion, and crash issues include constructing a retrofit roundabout, adding lighting, and shared-use path improvements at ND 24 and BIA 31 in Fort Yates.



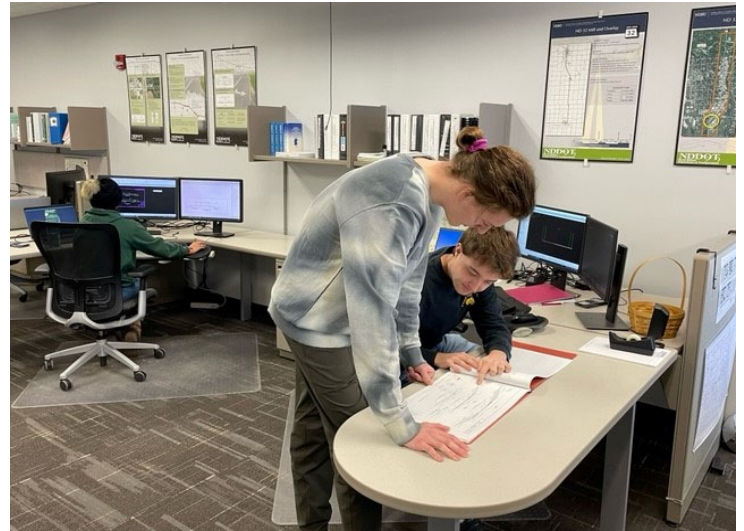
### Key Staff

**Brad Wentz, P.E.:** As UGPTI's DOTSC director, Brad provides oversight for the center's team of engineering and IT students who work on projects under the direction of the NDDOT.

**Brady Haussler, P.E.:** Brady is a Transportation Engineer for the Design Division of NDDOT and serves as DOTSC's supervisor.

**Jennifer Kern, P.E.:** Jennifer is a Transportation Engineer for the Design Division of NDDOT and serves as DOTSC's assistant supervisor.

Jennifer & Brady provide training and guidance to student design assistants working at DOTSC to help students learn the NDDOT project development process and apply principles of highway engineering and design to NDDOT projects.



### Apply to Work With DOTSC

Learn more about DOTSC and the opportunities for student design assistants at: <https://www.ugpti.org/dotsc/contact/>

DOTSC continuously accepts resumes from interested students in the fields of Civil Engineering, Construction Engineering and Construction Management. Click on "Internship Opportunities" for a downloadable application and email address for submissions.

For more information:  
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(701) 231-1075