

Who we are:

The Tennessee Department of Transportation provides citizens of Tennessee and travelers with one of the best transportation systems in the country. TDOT is a multimodal agency with responsibilities in building and maintaining roads, aviation, public transit, waterways, railroads, cycling and walking. Our involvement ranges from airport improvements to funding transit buses to planning for river ports.

The Department of Transportation has close to 3,400 employees statewide with regional facilities in Knoxville, Chattanooga, Nashville and Jackson. TDOT's headquarters is located in downtown Nashville.

What the Structures Division does:

The Structures Division is responsible for designing and developing plans and specifications relating to all highway structures and for the inspection of all bridges in Tennessee. Key responsibilities include design of foundation conditions, tolerances and complex geometry; the design of major or unusual structures; resolution of hydrology and hydraulic problems; coordination of Geological Survey services; processing of federal disaster assistance, hydraulic studies involving legal action; scour studies; inspection of prefabrication plants, welding procedure review; on-site erection supervision; design and development of contract plans specifications; development of automated structural detailing systems; and bridge inspection.

For more information on this division, please see link below:

<https://www.tn.gov/tdot/structures-.html>



Civil Engineering Intern

Structures Division - Bridge Design

Location: Nashville, TN

Compensation: \$20.00/hourly

Overview

The Tennessee Department of Transportation is currently hiring student interns for the Headquarters Structures Division's Bridge Design office located in Downtown Nashville. These interns will work with their supervisor to design a simple bridge. They will also learn how to use our design software and basic CADD skills. Bridge design has multiple steps; therefore, these interns will complete each step before being assigned the next one.

Responsibilities

- The intern will first be provided training on the following: a) in-service bridge terminology, inspection, and structural analysis, b) the concept of influence lines and its application of vehicles on bridges, and c) the TNTrips software.
- Use Open Bridge Designer, Open Roads Designer, Microsoft Excel, and other programs as needed.
- Use TDOT Structural Design Guidelines, AASHTO LRFD Bridge Design Specifications, TDOT Standard Specifications for Road and Bridge Construction, bridge design examples, and other resources when needed.
- Draw any sketches needed for the bridge preliminary layout and the foundation data sheet.

Minimum Qualifications

- Civil Engineering major required.
- Junior, or Senior Class Status required as of May 2024 OR recent Graduate as of Spring 2023.
- Legally authorized to work in the U.S.
- Familiarity with foundational structural design concepts preferred.
- Concrete Design class completion preferred

To be considered for this position, please apply via [SurveyMonkey](#).

Please attach a two (2) page maximum résumé and a transcript to your application.

Applicants will be required to provide an academic portfolio showcasing academic achievements, experience, and knowledge.

Pursuant to the State of Tennessee's Workplace Discrimination and Harassment policy, the State is firmly committed to the principle of fair and equal employment opportunities for its citizens and strives to protect the rights and opportunities of all people to seek, obtain, and hold employment without being subjected to illegal discrimination and harassment in the workplace. It is the State's policy to provide an environment free of discrimination and harassment of an individual because of that person's race, color, national origin, age (40 and over), sex, pregnancy, religion, creed, disability, veteran's status or any other category protected by state and/or federal civil rights laws.