

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 - Hydraulics Location: Nashville, TN Compensation: \$20.00/hourly

Overview

The Tennessee Department of Transportation is currently hiring a student intern for the Headquarters Structures Division's Hydraulics office located in Downtown Nashville. This intern will perform hydraulic design of 1-2 TDOT structures/projects. They will also learn how to use our design software and basic CADD skills. The intern will also learn about causes of bridge scour and importance in bridge design process and aquatic organism passage in culverts.

Responsibilities

- Become familiar with design concerns of hydraulic engineer and participate in project team meetings and discussions with TDOT staff from other specialty areas.
- Review roadway plans, survey files, and inspection info on existing structure
- Develop existing and no-bridge hydraulic models using HEC-RAS software.
- Develop proposed structure hydraulic models using HEC-RAS software.
- Evaluate proposed structures vs existing and determine most cost-effective proposed structure.
- Prepare bridge hydraulic layout or culvert sketch depending on structure type.
- Perform field visit with hydraulic engineer or ecologist and calculations using hydraulic toolbox.
- Evaluate results and communicate scour elevations to structural engineer.

Minimum Qualifications

- Civil Engineering, or Environmental 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.