

Who we are:

Transportation is so basic that many of us overlook its overwhelming importance in our daily lives. Practically everything used in our homes, offices, or schools across Tennessee – from furniture to food items to clothing – requires a large and complex transportation network. 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 approximately 3,500 employees with four statewide region facilities in Knoxville, Chattanooga, Nashville, and Jackson.



Application Architect

Information Technology Division – Architecture, Compliance, & Governance Section
Nashville, TN

\$115,000 - \$125,000 annually

Job Overview

The Application Architect provides technical leadership for the design, development, and evolution of TDOT applications and systems. This role collaborates with internal and external development teams to ensure solutions align with established architectural standards, business needs, security requirements, and long-term technology strategies.

The Application Architect defines, maintains, and continuously improves application architecture standards, libraries, and development tools used across TDOT. The role also evaluates emerging technologies and industry practices across the public and private sectors to identify opportunities for improvement.

Working closely with other architects and stakeholders, the Application Architect resolves complex technical challenges and promotes consistency, reuse, maintainability, and interoperability across TDOT systems. This work helps TDOT deliver reliable, sustainable, and cost-effective technology solutions while reducing technical risk and improving the quality of application development.

Essential Job Responsibilities

Lead the architecture of TDOT custom applications, systems, and integrations.

Collaborate with internal and external development teams to ensure solutions align with TDOT architectural standards and technology strategies. Define, maintain, and evolve application architecture standards, patterns, and best practices.

Provide architectural guidance and resolve complex technical issues across projects and delivery teams. Supplement delivery teams by providing hands-on technical support when needed. Govern Azure DevOps repositories, including structure, security, branching, permissions, and related standards. Oversee build and release pipelines that support consistent, secure, and reliable software delivery.

Maintain shared application libraries, frameworks, tools, and reusable components. Evaluate emerging technologies and industry practices to identify opportunities for improvement. Solicit feedback from development teams and stakeholders to improve

architectural standards and services. Collaborate with other architects to promote interoperability, scalability, maintainability, and long-term sustainability of TDOT systems.

Qualifications

Bachelor's degree in Information Technology, Computer Science, Software Engineering, or a related field, and at least 5 years of application development experience.

An equivalent combination of education and experience may be considered.

Ideal Candidate

The ideal candidate is an experienced software engineer with strong knowledge of C# and .NET, modern web development using SPA frameworks such as Angular or React, relational databases, Git version control, cloud architecture, and Platform-as-a-Service technologies. They understand the full application lifecycle and can translate business needs into secure, maintainable, and scalable technical solutions.

The successful candidate is a systems thinker who can evaluate complex technical and organizational constraints, identify risks and tradeoffs, and make practical architectural decisions. They communicate clearly with technical and nontechnical stakeholders, collaborate effectively with internal and external development teams, and build consensus around standards and solutions.

Candidates should be curious, adaptable, and committed to continuous improvement. They value consistency, reuse, security, maintainability, and long-term sustainability while remaining pragmatic and responsive to the needs of TDOT.