

Missouri Department of Transportation Job Description

Job Title: Roadside Design Specialist

Title Code: R05456

Salary Grade: 10

Exemption Status: Exempt

Supervisory Responsibilities: None

District/Division: Central Office – Design

Effective Date: 04-01-2026

Replaces (Effective Date): 07-01-2022

General Summary

The roadside design specialist serves as the department's roadside design expert, focusing on providing safe vehicle recovery when vehicles leave the roadway and reducing crash severity. Responsibilities are performed under general supervision.

Minimum/Required Qualifications

- Bachelor's degree in engineering from an ABET-accredited college or university curriculum.
- Successful completion of the Engineer-in-Training exam.
- Five years of experience in highway or transportation engineering.

Special Working Conditions/Job Characteristics

- Job requires occasional, statewide or out-of-state, overnight travel.
- A postsecondary degree is the best measure to ensure candidates possess required knowledge in applied physics and mathematics, drafting, engineering processes and procedures, project management, industry ethical standards, and analyzing and modeling data.

Examples of Work

1. Serves as the department's roadside design expert and provides direction and training to districts, divisions, and consultants regarding roadside design guidance and safety.
2. Serves as a technical resource for department design, construction, and maintenance personnel, as well as department project managers.
3. Evaluates roadside safety products and implements roadside safety practices and features.

4. Monitors progress and performs quality assurance of project activities and roadway design plans for compliance with department policies and procedures, federal regulations and department direction.
5. Develops, maintains, and communicates roadside hardware policy, approval process, and implementation of crashworthy devices on state right of way.
6. Designs, maintains, and applies roadside design policy, specifications, and standard plans according to current design practices and identified best practices.
7. Provides roadside design direction to district project teams.
8. May serves as an expert witness for roadside design issues.
9. Liaisons with industry partners and other divisions to ensure appropriate roadside design features and products are installed and maintained correctly.
10. Represents the department on national task forces, technical committees, pooled fund studies, and research boards.
11. Performs other responsibilities as required or assigned.