Missouri Department of Transportation Job Description

Job Title: Senior Traffic Studies Specialist

Title Code: R05754

Salary Grade: 9

Exemption Status: Non-Exempt

Supervisory Responsibilities: Lead Worker

District/Division: Central and District Offices – Highway Safety and Traffic

Effective Date: 09-01-2026

Replaces (Effective Date): 06-01-2025

General Summary

The senior traffic studies specialist leads the collection of traffic related data; analyzes data for causes and recommends remedial action; and leads the signing and striping and/or signal and lighting special crews. Responsibilities are performed under general supervision.

Minimum/Required Qualifications

- Bachelor's degree in engineering from an ABET-accredited college or university curriculum.
- Four years of experience in highway or transportation engineering.

Special Working Conditions/Job Characteristics

- Job requires exposure to moderately adverse and undesirable environmental conditions.
- A postsecondary degree is the best measure to ensure candidates possess required engineering knowledge, including in applied physics and mathematics, drafting, engineering processes and procedures, project management, industry ethical standards, and analyzing and modeling data.

Examples of Work

1. Prepares transportation related reports, correspondence, records, and presentations for internal and external customers.
2. Meets with developers, contractors, utility companies, or consultants to discuss proposed projects; meets with local governmental agencies and the media to discuss transportation related issues.
3. Directs the activities of traffic data collection, signing, pavement marking, and signal and lighting operations.

4. Conducts traffic studies; coordinates traffic engineering staff in the review, query, and analysis of traffic data to identify concerns and recommend transportation improvements to ensure safe and efficient traffic flow.

5. Designs and/or develops layout of traffic control devices; reviews plans for proper design and application of traffic control devices; and supports project development by serving on multiagency, quick action, and core teams.

6. Responds to and investigates public, political, and media inquiries, complaints, requests and criticisms of department facilities.

7. Coordinates with maintenance in signing, signal and lighting operations; makes recommendations regarding traffic control equipment and materials.

8. Performs lead worker responsibilities, which may include providing general instruction, assigning and reviewing work, coaching and training, providing guidance and instruction in the proper and most efficient methods of accomplishing tasks, and providing input to the direct supervisor on staffing decisions and performance management.

9. Performs other responsibilities as required or assigned.