

Missouri Department of Transportation Job Description

Job Title: Senior Pavement Specialist

Title Code: R05023

Salary Grade: 9

Exemption Status: Non-Exempt

Supervisory Responsibilities: None

District/Division: District Office – as assigned

Effective Date: 09-01-2026

Replaces (Effective Date): 06-01-2025

General Summary

The senior pavement specialist assists in the coordination of pavement management and transportation planning; performs pavement type selections and assists in the development of pavement rehabilitation strategies; investigates premature pavement failures and provides input on pavement solutions during construction and maintenance activities. 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.
- OSHA 10-Hour Certification required within 90 days.

Special Working Conditions/Job Characteristics

- Job requires exposure to physical hazards, health and safety risks, and/or adverse or otherwise undesirable characteristics in the environment.
- 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. Leads the district pavement planning process to ensure proper pavement treatments for state roads are prepared and available based on budgets, pavement conditions, and department asset management plan.

2. Collects and analyzes pavement data, analyzes the life expectancies of treatment options, analyzes strategies to determine the effective use of funds.
3. Ensures quality work is performed on the pavement plan by analyzing the performance of pavement maintenance and improvement products; participates in pre-operation meetings, equipment calibration, equipment operation, and determining application rates.
4. Develops and communicates the annual district pavement plan for all pavement-related activities.
5. Researches, evaluates, and recommends new pavement technologies.
6. Investigates and collects data on pavement failures.
7. Makes recommendations in district core team meetings.
8. Leads pavement evaluations with Central Office Construction and Materials Division.
9. Performs other responsibilities as required or assigned.