Missouri Department of Transportation Job Description

Job Title: District Bridge Engineer

Title Code: R05453

Salary Grade: 12

Exemption Status: Exempt

Supervisory Responsibilities: Full Supervision

District/Division: Central Office - Bridge

Effective Date: 10-01-2025

Replaces (Effective Date): 01-16-2025

General Summary

The district bridge engineer has responsibility for all bridges in a region, both state and non-state, including planning, scoping, inspecting, maintenance work planning and supervising the region's bridge maintenance personnel. Responsibilities are performed under general supervision.

Minimum/Required Qualifications

- Bachelor's degree in engineering from an ABET-accredited college or university curriculum.
- Licensed as a Professional Engineer in the State of Missouri.
- Must complete National Highway Institute (NHI) Course 130055A, "Safety Inspection of In-Service Bridges" prior to beginning inspection assignments.
- Six years of experience in highway or transportation engineering.
- Successful completion of a range of motion examination and a medical-physical examination.

Special Working Conditions/Job Characteristics

- Job requires occasional, statewide and out-of-state, overnight travel.
- Job requires exposure to moderately adverse and undesirable environmental conditions.
- This title requires advanced accreditation or licensure which is only available to holders of specific postsecondary degrees.

Examples of Work

1. Supervises, plans, schedules and reviews maintenance of state and non-state bridges, culverts, bridge decks, channels and bridge pavement including identifying repairs and recommending maintenance, rehabilitation or replacement.

2. Administers bridge projects from programming through final acceptance, including project selection, plan review and pay estimate review.

3. Performs and supervises bridge safety inspections to evaluate maintenance needs and assign condition and appraisal ratings.

4. Represents the department regarding bridge-related issues to city or county representatives, law enforcement officials, utilities, transportation planning organizations and the media.

5. Collects bridge-related information, monitors load posting compliance, reviews inspection results, answers questions, provides safety counseling, investigates liability situations, and provides guidance and direction to local agencies.

6. Serves as a region's technical resource for bridge-related issues including investigating and responding to internal and external customer questions, complaints and requests.

7. Updates county bridge maps, files and computer records.

8. Performs post-incident bridge safety inspection including determining severity of damage and ensures appropriate follow-up action, including closure and/or detour operations as necessary.

9. Develops a region's long-range bridge maintenance program including recommending bridges for replacement or rehabilitation.

10. Supervises bridge inspection and maintenance personnel including evaluating employee performance, recommending employment-related action, and ensuring employees receive appropriate training.

11. Performs supervisory responsibilities.

12. Performs other responsibilities as required or assigned.