

Missouri Department of Transportation Job Description

Job Title: Bridge Inspector

Title Code: R05400

Salary Grade: 7

Exemption Status: Non-Exempt

Supervisory Responsibilities: None

District/Division: District Offices - Maintenance / Bridge Division

Effective Date: 07-01-2025

Replaces (Effective Date): 03-01-2025

General Summary

The bridge inspector performs federally mandated inspections on state and locally owned bridges and culverts within the assigned areas of responsibility, including planning, scoping, maintenance work planning, and providing guidance to the region's bridge maintenance personnel. Responsibilities are performed under direct supervision.

Minimum/Required Qualifications

- Bachelor's Degree in Engineering from an ABET-accredited college or university curriculum.
- Successful completion of a range of motion examination and a medical-physical examination.
- Required to pass a cardiopulmonary function test yearly, attend training on the use of respirators, and pass a respirator fit test every six months.

Special Working Conditions/Job Characteristics

- Job requires regular travel within the district.
- Job requires occasional (regular for Bridge Division) statewide and out-of-state, overnight travel.
- Job requires exposure to physical hazards, health and safety risks, and/or adverse or otherwise undesirable characteristics in the environment.
- May require operation of vehicles to plow snow and spread ice control materials.
- 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. Schedules and assists the Team Leader in performance of safety inspections on bridges and culverts to evaluate maintenance needs and assign condition and appraisal ratings.
2. Assists the Team Leader in performing bridge and culvert inspections, including routine, in-depth, fracture critical, special, and underwater.
3. Prepares reports and correspondence, maintains and updates inspection-related data in the department's Transportation Management System database for all structures, and collects bridge related information on new locally owned structures.
4. Communicates and coordinates with local public officials regarding inspections, inspection findings, and inventorying of bridges and culverts. Communicates with Bridge Division, Maintenance Division, and district personnel to explain maintenance needs or inspection findings on state owned structures.
5. Updates bridge maps, files, and computer records; monitors load posting compliance on state and locally owned bridges and culverts; monitors progress on resolution of critical inspection findings.
6. Assists with the inventory and inspection of other structures which are not part of the National Bridge Inventory, such as retaining walls and sign trusses.
7. Performs other responsibilities as required or assigned.