

# Missouri Department of Transportation

Code: R05858

Title: Bridge Inspection Engineer

Exemption Status: Exempt

Grade: 12

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## Job Description

Effective Date 07-01-2022

Replaces  
(Effective Date) 03-01-2021

**General Summary** The bridge inspection engineer supervises bridge inspection crews that perform federally mandated inspections on bridges to ensure the safety of the traveling public, assign condition and appraisal ratings, and determine structural soundness and maintenance needs; provides technical expertise on bridge maintenance to Districts. 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.  
Requires completion of Cardio Pulmonary Resuscitation and first aid training.  
Must meet the requirements for a Team Leader for bridge inspections in accordance with the National Bridge Inspection Standards (23 CFR 650 Subpart C) within six (6) months of start date.  
Must pass physical exam annually to remain in the job.  
Successful completion of a range of motion examination and a medical-physical examination.  
Six years of experience in highway or transportation engineering.

**Supervisory Responsibilities** Full Supervision

**Location** Central Office - Bridge Division

**Special Working Conditions/Job Characteristics** Job requires regular, statewide, overnight travel.  
Job requires exposure to physical hazards, health and safety risks, and/or adverse or otherwise undesirable characteristics in the environment.

## Examples of Work

- (1) Performs routine, fracture critical, special, and in-depth bridge inspection to determine structural soundness and maintenance needs; may occasionally assist the underwater bridge inspection team.
- (2) Schedules, assigns, and reviews work of bridge inspection crews performing fracture critical, special, and in-depth inspections to ensure inspections are in compliance with department and federal requirements.

- (3) Prepares reports on bridge conditions and inspections and reviews bridge inspection reports from inspection crews; writes standard operating procedures for bridge inspections.
- (4) Performs quality assurance inspections of bridges in accordance with requirements outlined in the Bridge Inspection Rating Manual.
- (5) Serves as liaison for safety, bridge painting, and bridge repairs for internal bridge maintenance crews.
- (6) Performs emergency inspections of bridges damaged by collision, floods, etc., and makes recommendations for immediate actions needed to ensure public safety.
- (7) Creates, updates, and maintains computer based bridge records and files.
- (8) Performs supervisory responsibilities in a manner consistent with the department's Affirmative Action Program.
- (9) Performs other responsibilities as required or assigned.

**The Missouri Department of Transportation promotes an equal opportunity workplace that includes reasonable accommodation of otherwise disabled applicants and employees. Please see your manager should you have any questions about this policy or these job duties.**