

# Missouri Department of Transportation Job Description

**Job Title:** Assistant District Bridge Engineer

**Title Code:** R05042

**Salary Grade:** 11

**Exemption Status:** Exempt

**Supervisory Responsibilities:** Lead Worker

**District/Division:** District Offices - Maintenance

**Effective Date:** 01-16-2025

**Replaces (Effective Date):** 01-01-2024

## **General Summary**

The assistant district bridge engineer assists the district bridge engineer in performing federally mandated inspections on state and locally owned bridges and culverts within the district, including planning, scoping, maintenance work planning, and providing guidance to 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 be either certified as a Team Leader for bridge inspections or meet the requirements to become Team Leader certified, in accordance with 23 CFR 650.309 within 6 months of hire.
- Five years of structural experience in highway or transportation engineering, including at least two years related to bridge design, inspection, construction, or maintenance.
- Successful completion of a range of motion examination and a medical-physical examination.

## **Special Working Conditions/Job Characteristics**

- Job requires regular travel within the district.
- Job requires occasional 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.
- This title requires advanced accreditation or licensure which is only available to holders of specific postsecondary degrees.

### **Examples of Work**

1. Coordinates, schedules, and performs safety inspections on bridges and culverts to evaluate maintenance needs and assign condition and appraisal ratings.
2. Performs 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 data on new locally owned structures.
4. Assigns bridge maintenance work to district maintenance crews.
5. Serves as a technical resource for bridge-related issues on locally owned and state-owned structures.
6. Communicates and coordinates with local public officials regarding inspecting and inventorying bridges and culverts, and communicates with Bridge Division, Maintenance Division, and district personnel to explain maintenance needs or inspection findings on state owned structures.
7. Updates bridge maps, files, and computer records; monitors load posting compliance on state and locally owned bridges and culverts.
8. Assists the district bridge engineer in developing the district's Bridge Management Plan.
9. Performs post-incident bridge safety inspections, including determining severity of damage, and ensuring follow-up actions such as load restrictions and bridge closures are implemented.
10. 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.
11. 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.
12. Performs other responsibilities as required or assigned.