

# Missouri Department of Transportation Job Description

**Job Title:** Structural Technician

**Title Code:** R03544

**Salary Grade:** 2

**Exemption Status:** Non-Exempt

**Supervisory Responsibilities:** None

**District/Division:** Central Office - Bridge

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

**Replaces (Effective Date):** 10-01-2024

## **General Summary**

The structural technician performs entry-level technical or paraprofessional duties in the preparation of detailed construction plans for highway bridges and related structures. Responsibilities are performed under moderate supervision.

## **Minimum/Required Qualifications**

- Associate's Degree in Civil Engineering Technology, Drafting, or related field.

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

- A postsecondary degree is the best measure to ensure candidates possess required knowledge in computer aided drafting; trigonometry, geometry, and physics; statics and strength of materials; surveying concepts; material quantity calculations, takeoffs, and unit pricing; and dimensioning concepts.

## **Examples of Work**

1. Prepares detailed construction plans for routine bridges, retaining walls and box culverts using computer aided drafting systems.
2. Computes elevations and structural dimensions from sketches and computations supplied by a designer.
3. Makes necessary revisions after plans have been checked or reviewed.
4. Computes reinforcing bar lists and quantities of materials needed for construction.

5. Prepares preliminary detailing for new projects.
6. Performs other responsibilities as required or assigned.