Missouri Department of Transportation Job Description

Job Title: Fabrication Operations Engineer

Title Code: R05865

Salary Grade: 13

Exemption Status: Exempt

Supervisory Responsibilities: Full Supervision

District/Division: Central Office – Bridge

Effective Date: 10-16-2025

Replaces (Effective Date): 01-16-2025

General Summary

The fabrication operations engineer fulfills the role of technical expert for the department relating to fabrication issues including, but not limited to, quality assurance inspection, shop drawing review, design, and construction of bridges and other structures. Responsibilities are performed under general supervision.

Minimum/Required Qualifications

- Bachelor's degree in civil or structural engineering from an ABET-accredited college or university curriculum.
- Licensed as a Professional Engineer in the State of Missouri.
- Nine years of post-graduate experience in civil engineering with a demonstrated proficiency in structural design, bridge construction, or materials inspection. An advanced degree in civil engineering with an emphasis in structures or metallurgy may be substituted for a maximum of two years of experience.

Special Working Conditions/Job Characteristics

- Work requires occasional, statewide and/or national, overnight travel.
- This title requires advanced accreditation or licensure which is only available to holders of specific postsecondary degrees.

Examples of Work

1. Guides fabrication staff in performing inspections and reviewing shop drawings to ensure conformance to plans, special provisions and accepted practice; schedules work assignments and

shop inspections; determines staffing levels; establishes work priorities and methods; prepares the unit budget.

2. Provides technical support for fabrication staff by clarifying contract documents and addressing fabrication related problems and questions.

3. Provides technical support to the division staff, other divisions and external customers regarding design and fabrication issues.

4. Maintains and reviews submittals and answers questions for the department field welder card program.

5. Acts as a primary contact for consultant engineers for shop drawing reviews and for design issues resulting from fabrication errors or constructability concerns.

6. Develops and reviews fabrication operational policies.

7. Acts as the department representative to the fabrication industry and the fabrication units of other states# Departments of Transportation.

8. Drives development of contract documents pertaining to fabrication issues.

9. Reviews product and special structure submittals from suppliers for conformance to contract and standards.

10. Signs and seals structural plans and/or related documents as necessary.

11. Performs supervisory responsibilities.

12. Performs other responsibilities as required or assigned.