

# Missouri Department of Transportation

Code: R03536

Title: Senior Fabrication Technician

Exemption Status: Non-Exempt

Grade: 16

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## Job Description

**Effective Date** 02-01-2019

**Replaces (Effective Date)** 11-01-2007

**General Summary** The senior fabrication technician inspects steel fabrication shop work for complicated structures to ensure the work meets the department's specifications and provisions. Responsibilities are performed under general supervision.

**Minimum/Required Qualifications** Two years of college or Associate's Degree: Drafting, Computer Aided Drafting, or engineering related field with additional training in welding inspection, structural steel shop practices, and non-destructive testing  
Certification by the American Welding Society (AWS) as a Certified Welding Inspector (CWI); or American Society of Nondestructive Testing (ASNT) Level II Magnetic Particle Testing; or ASNT Level II Ultrasonic Testing; or NACE-International Coatings Inspector  
Six years of experience in structural detailing, of which four years should be in structural materials fabrication inspection.

**Supervisory Responsibilities** None

**Location** Central Office - Bridge

**Special Working Conditions/Job Characteristics** Job requires continuous, statewide and/or national, overnight travel.

Job requires significant physical stamina and endurance.

Job requires exposure to physical hazards, health and safety risks, and/or adverse or otherwise undesirable characteristics in the environment including carrying out duties from elevated heights, near heavy machinery or equipment in hazardous areas, and exposure to loud noise.

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## Examples of Work

- (1) Acts as the department's primary on-site contact and representative with the fabricator in making and communicating operating decisions concerning the quality and acceptability of structural fabrications.
- (2) Conducts prefabrication meetings and periodic progress meetings with the fabricator's representatives; interprets specifications, special provisions and other contract documents.
- (3) Initiates, reviews, and responds to questions, letters, memorandums and meeting minutes (in addition to daily diaries) to ensure effective documentation and communication of the department's position concerning fabrication and structural performance issues.

- (4) Ensures successful utilization of the quality assurance inspection mode in the fabrication shop.
- (5) Witnesses non-destructive testing (such as dye penetrate, magnetic particle, x-ray, and ultrasonic) done by shop personnel and performs visual inspections of shop welds and general workmanship for conformance to shop and design drawings.
- (6) Reviews material mill test certifications, welder qualifications, and welding procedures, non-destructive test records and qualifications of shop personnel for conformance to requirements of the contract documents.
- (7) Observes shop assembly of bridge steel and drilling of field connections for conformity to the contract documents.
- (8) Assists fabrication plan reviewers in the review process for fabricator detail shop drawings to ensure conformance to construction plans, special provisions, standard specifications, welding codes, and accepted shop practices.
- (9) Provides assistance and guidance to fabricators and department personnel in solving special material, welding, and fabrication problems.
- (10) Assists with resource management by coordinating, scheduling and directing the efforts of other fabrication inspection personnel assigned to provide support for the project; provides input to the section supervisor relating to performance management for these activities.
- (11) Recommends specification and policy revisions as they relate to structural welding and fabrication quality control and quality assurance.
- (12) Acts as a coach and/or partner in the training and orientation of new fabrication inspection personnel concerning technical aspects and also their expected role as a member of the fabrication team.
- (13) May perform supervisor's duties in his/her absence.
- (14) 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.**