Missouri Department of Transportation

Code: R05834 Title: Structural Designer

Exemption Status: Non-Exempt Grade: 7

Job Description	
Effective Date	07-01-2022
Replaces (Effective Date)	02-01-2021
General Summary	The structural designer is responsible for making structural design computations, analysis, drawings, and sketches for the design of transportation related structures, such as routine bridges, retaining walls, and box culverts. Responsibilities are performed under moderate supervision.
Minimum/Required Qualifications	Bachelor's degree in Engineering from an ABET-accredited college or university curriculum.
Supervisory Responsibilities	None
Location	Central Office - Bridge
Special Working	
Conditions/Job Characteristics	

Examples of Work

- (1) Performs structural design computations and analysis and sketches of routine bridges, retaining walls, and box culverts.
- (2) Performs structural evaluations for special permit or construction loadings.
- (3) Performs supporting calculations, reviews history files and updates manuals to keep engineering library updated.
- (4) Creates sketches by hand or using computer aided drafting and design applications to illustrate the structure design.
- (5) Rates bridges for load capacities and the federal bridge inventory as required by state statutes and national standards.
- (6) Attends project meetings and consults/advises all parties involved including department personnel, city, county, state, federal personnel and private consultants.
- (7) Evaluates and utilizes engineering software and develops comprehensive spreadsheets.
- (8) Performs other responsibilities as required or assigned.

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