

Missouri Department of Transportation

Code: R05013

Title: Research Engineer

Exemption Status: Exempt

Grade: 18

Job Description

Effective Date 02-01-2019

**Replaces
(Effective Date)** 07-16-2011

General Summary The research engineer designs or leads research projects to develop solutions to problems with the design, materials and practices used in highway and bridge construction and maintenance; provides assistance in development and implementation of research findings, and in sharing results through technology transfer. Responsibilities are performed under general supervision.

**Minimum/Required
Qualifications** Bachelor's Degree: Civil Engineering
Licensed as a Professional Engineer in the State of Missouri.

Six years of progressive experience in engineering positions, including demonstrated ability to manage teams and multiple projects, and focus on several functional areas of engineering positions.

**Supervisory
Responsibilities** Lead Worker Only

Location Central Office - Construction and Materials

**Special Working
Conditions/Job
Characteristics** Job requires occasional, statewide, overnight travel.
Job requires exposure to physical hazards, health and safety risks, and/or adverse or otherwise undesirable characteristics in the environment.

Examples of Work

- (1) Project manager for research projects conducted by external research teams, including coordinating with laboratory or field personnel on work performed at construction or maintenance sites.
- (2) Investigates and analyzes unusual, emergency, or complex engineering problems; develops recommendations for solutions to problems and prepares reports of investigations.
- (3) Designs and conducts special or experimental investigations of design, materials or construction practices used in highway and bridge construction, maintenance operations or equipment.
- (4) Reviews or prepares specifications and special provisions; reviews construction plans for implementation of recommended special procedures; reviews standards and best practice methods proposed by national organizations.
- (5) Evaluates new products for development and makes recommendations for possible use by the department.

- (6) Represents the department on the American Association of State Highway and Transportation Officials (AASHTO) Research Advisory Committee to share best practices with other states and help promote research of regional or national significance.
- (7) 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.
- (8) 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.