

Missouri Department of Transportation

Code: R05014

Title: Senior Research Analyst

Exemption Status: Non-Exempt

Grade: 9

Job Description

Effective Date	06-01-2025
----------------	------------

Replaces (Effective Date)	11-01-2023
------------------------------	------------

General Summary

The senior research analyst analyzes, evaluates, and improves organizational performance by managing varied and complex transportation engineering research. Responsibilities are performed under general supervision.

Minimum/Required Qualifications

Bachelor's degree in engineering from an ABET-accredited college or university curriculum.
Four years of experience in research or equivalent experience.

Supervisory Responsibilities

Lead Worker

Location

Central Office - Construction and Materials

Special Working Conditions / Job Characteristics

Job requires occasional, statewide, overnight travel.
A postsecondary degree is the best measure to ensure candidates possess required engineering knowledge, including in applied physics and mathematics, drafting, engineering processes and procedures, project management, industry ethical standards, and analyzing and modeling data.

Examples of Work

- (1) Manages external research teams conducting investigations and prepare reports on the materials, construction, maintenance operations, and bridge practices used in all aspects of the transportation system.
- (2) Facilitates coordination between MoDOT and external researchers for meetings, data collection, field work, and report review.
- (3) Works with districts and divisions to track the progress of implementing research recommendations.
- (4) Works with the Construction and Materials Field Office, and other districts and divisions as requested, to help track projects with new or innovative products/construction techniques on a regular schedule.

- (5) Assists with new project selections and works with the division and districts to develop Requests for Proposals and conducts selection meetings.
- (6) Reviews and disseminates innovations and best practice methods proposed by national organizations and reviews new product information and national standard specifications to prepare recommendations for possible use or implementation by the department.
- (7) Analyzes data related to transportation and engineering functions; develops recommendations and prepares reports.
- (8) Coordinates physical tests performed by external research teams on materials, new products, or new technologies for research and development purposes; coordinates material sampling which may include soil, concrete, asphalt, or aggregates.
- (9) 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.
- (10) Performs other responsibilities as required or assigned.