

# Missouri Department of Transportation

Code: R05459

Title: Geologist

Exemption Status: Exempt

Grade: 18

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## Job Description

**Effective Date** 04-15-2017

**Replaces (Effective Date)** 06-01-2010

**General Summary** The geologist supervises and gives technical guidance to employees performing geotechnical investigations, aggregate inspection and bituminous batch plant inspection; serves as a technical consultant to a district on materials and geotechnical issues supporting preliminary engineering and roadway construction. Responsibilities are performed under general supervision.

**Minimum/Required Qualifications** Bachelor's Degree: Geology, Geological Engineering, Civil Engineering, or related field  
Licensed as a Registered Geologist in the State of Missouri.  
Six years of experience in highway or transportation engineering.  
Successful completion of a work simulation examination and a medical-physical examination.

**Supervisory Responsibilities** Full Supervision

**Location** Central and District Offices - Construction and Materials

**Special Working Conditions/Job Characteristics** Job may require regular, statewide, overnight travel.  
Job requires exposure to moderately adverse and undesirable environmental conditions.

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## Examples of Work

- (1) Supervises and provides technical guidance for the inspection of aggregates and bituminous plant inspection; makes hiring and other employment-related decisions, assigns work, disciplines employees and conducts performance management.
- (2) Conducts or supervises field investigations including preliminary geotechnical investigations, borrow site investigations, roadway condition investigations and quarry ledge stone investigations.
- (3) Conducts preliminary geotechnical surveys and provides final recommendations to design and construction projects.
- (4) Investigates geotechnical problems such as bridge/culvert foundations, landslides, erosion/drainage, subgrade instability and underground mines and determines corrective or preventive action.
- (5) Identifies, classifies, samples, and reports new ledge stone sources for evaluation of aggregate source quality.

- (6) Prepares, writes, reviews, signs and seals geotechnical reports, quarry columnar sections and other technical documents.
- (7) Liaisons with consultants and producers to ensure geotechnical work is in compliance with standard practices, policies and procedures; liaisons with the central office regarding scheduling surveys, securing access to private property, traffic control and utility clearance for structures.
- (8) Prepares materials reports and general inspection summaries; reviews contracts and conceptual, preliminary and final design plans.
- (9) Provides technical supervision for drilling operations for geotechnical surveys.
- (10) Serves as an expert witness for the department on lawsuits involving geotechnical issues.
- (11) Attends district project core teams, including planning, scoping, review and final field checks.
- (12) Performs supervisory responsibilities in a manner consistent with the department's Affirmative Action Program.
- (13) 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.**