

Missouri Department of Transportation

Code: R05824

Title: Geotechnical Specialist

Exemption Status: Non-Exempt

Grade: 7

Job Description

Effective Date 11-01-2023

Replaces (Effective Date) 08-01-2023

General Summary The geotechnical specialist plans and executes geotechnical and possible environmental investigations for structures. Responsibilities are performed under moderate supervision.

Minimum/Required Qualifications Bachelor's Degree in Civil Engineering (with Geotechnical emphasis), Geological Engineering, or Geology from an ABET-accredited college or university curriculum.
OSHA 10-Hour Certification required within 90 days.
Successful completion of a range of motion examination and a medical-physical examination.

Supervisory Responsibilities None

Location Central or District Offices - Construction and Materials

Special Working Conditions/Job Characteristics Job may require regular, statewide, overnight travel.
Job requires heavy physical exertion and effort.
Job requires exposure to moderately adverse and undesirable environmental conditions.
Job may require operation of vehicles to plow snow and spread ice control materials.

Examples of Work

- (1) Provides technical support for the drilling crews conducting geotechnical investigations for structures and roadways; develops and executes a drilling plan for geotechnical and possible environmental investigations.
- (2) Collects and prepares soil samples for testing in the central laboratory; performs field soil and rock tests on samples retrieved.
- (3) Plans and prepares for drilling activities such as requesting traffic control for traffic lane access, confirming the clearing of underground utilities, and confirming property owner's permission to access property.

- (4) Collects, evaluates, organizes, and edits field and laboratory test results for geotechnical reports of highway structures or environmental investigations.
- (5) Writes reports and makes recommendations after completing investigations; may assist in the review and analysis of the test data.
- (6) Assists in geotechnical investigations for future job sites and proposed roadways.
- (7) Performs global stability analysis (slope stability) using data obtained from soil tests.
- (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.