

Missouri Department of Transportation Job Description

Job Title: Intermediate Geotechnical Specialist

Title Code: R05027

Salary Grade: 8

Exemption Status: Non-Exempt

Supervisory Responsibilities: Lead Worker Only

District/Division: Central or District Offices – Construction and Materials

Effective Date: 06-01-2025

Replaces (Effective Date): 11-01-2023

General Summary

The intermediate geotechnical specialist performs geotechnical investigations statewide and assists in the analysis of geotechnical test data. Responsibilities are performed under general 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.
- Two years of experience in highway or transportation engineering
- OSHA 10-Hour Certification required within 90 days.
- Successful completion of a range of motion examination and a medical-physical examination.

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.

- 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. Provides technical support for field subsurface investigations on structures; assists in review and analysis of geotechnical test data and development of recommendations for solutions to problems.
2. Provides technical support for field investigations of compressible foundations, slides, and other slope stability problems including undisturbed sampling; assists in analysis of the test data.
3. Performs computations and prepares reports of test results; may assist in the analysis of test data and other factors.
4. May assist in acquiring ledge stone samples at producing quarries in the district; assists in determining ledges by visual observation in the field.
5. Coordinates with Central Office geotechnical crews within the district prior to beginning a subsurface investigation; contacts property owners to secure access; contacts the utility company to mark lines in the field and sets up work zones when working on roadways.
6. Assists in geotechnical investigations for future job sites and proposed roadways.
7. May assist in collecting, researching, and analyzing relevant geologic or soils information for research projects and special foundation studies.
8. 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.
9. Performs other responsibilities as required or assigned.