

Missouri Department of Transportation Job Description

Job Title: Geotechnical Engineer

Title Code: R05822

Salary Grade: 11

Exemption Status: Exempt

Supervisory Responsibilities: Full Supervision

District/Division: Central Office – Construction and Materials

Effective Date: 07-01-2023

Replaces (Effective Date): 07-01-2022

General Summary

The geotechnical engineer coordinates and supervises geotechnical investigations statewide; provides geotechnical engineering expertise, support and design methodology; provides recommendations for correcting geotechnical problems; and performs and supervises geotechnical research.

Responsibilities are performed under general supervision.

Minimum/Required Qualifications

- Bachelor's Degree: Geological Engineering or Civil Engineering with a Geotechnical emphasis from an ABET-accredited college or university curriculum.
- Licenses as a Professional Engineer in the State of Missouri.
- Six years of experience in geotechnical engineering.
- OSHA 10-Hour Certification required within 90 days.

Special Working Conditions/Job Characteristics

- Job requires regular, statewide, overnight travel.
- Job requires exposure to moderately adverse and undesirable environmental conditions.

Examples of Work

1. Provides geotechnical engineering expertise, support, and design methodology to department personnel and external consultants.
2. Schedules subsurface and special foundation investigations, including coordinating department personnel and consultants.

3. Oversees the geotechnical engineering portion of consultant-designed projects for accuracy, completeness, and best design practices; prepares on-call geotechnical contracts, approves on call consultants, reviews invoices, and recommends payment.
4. Coordinates implementation of design recommendations with department personnel and consultants.
5. Directs geotechnical investigations for compressible foundations, slides and other geotechnical problems or issues, including directing subsurface exploration, laboratory testing, engineering analyses, and summary report preparation.
6. Conducts field trips to investigate special problems; serves as a contact between Central Office, districts, and consultants regarding geotechnical problems.
7. Trains department staff on geotechnical issues.
8. Manages and conducts research and studies to evaluate exploration and testing equipment, products, processes, and procedures in the geotechnical area.
9. Develops policies, design criteria, specifications, and special provisions relating to geotechnical matters.
10. Supervises geotechnical personnel including making hiring and other employment-related decisions, assigning work, disciplining employees, and conducting performance management.
11. Performs supervisory responsibilities in a manner consistent with the department's Affirmative Action Program.
12. 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.