

Missouri Department of Transportation Job Description

Job Title: Core Drill Operator

Title Code: R01319

Salary Grade: 7

Exemption Status: Non-Exempt

Supervisory Responsibilities: Lead Worker Only

District/Division: Central Office - Construction and Materials

Effective Date: 12-16-2024

Replaces (Effective Date): 08-01-2023

General Summary

The core drill operator operates a drill power control center and leads a drilling crew responsible for obtaining material samples and data for subsurface investigations. Responsibilities are performed under general supervision.

Minimum/Required Qualifications

- High School Diploma or GED/HiSET
- Valid Class A Commercial Driver's License with tanker endorsement, no air brake restrictions, and interstate status (either Excepted Interstate [EI] or Non-Excepted Interstate [NI]).
- Five years of experience in exploration drilling.
- OSHA 10-Hour Certification required within 90 days.
- Successful completion of a work simulation examination and a medical-physical examination.

Special Working Conditions/Job Characteristics

- Job requires continuous, statewide, overnight travel.
- Job requires heavy physical exertion and effort. Job requires exposure to physical hazards, health and safety risks, and/or adverse or otherwise undesirable characteristics in the environment.
- Job may require operation of vehicles to plow snow and spread ice control materials.

Examples of Work

1. Leads crews in drilling activities necessary to obtain material samples and data for subsurface investigations.
2. Directs the selection, set up, and dismantling of drilling location.
3. Operates power control center from drilling station to raise and lower mast, install pipe, casing, core barrels and drill rods, govern speed of rotation, bit penetration rate, and drilling fluid pressure.
4. Supervises removal, packing, and identification of cores, and creates a geological logging of boring holes.
5. Maintains inventory, equipment, and vehicle records.
6. Trains new employees and enforces safety regulations.
7. 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.
8. Performs other responsibilities as required or assigned.