

Missouri Department of Transportation Job Description

Job Title: Senior Core Drill Assistant

Title Code: R01317

Salary Grade: 5

Exemption Status: Non-Exempt

Supervisory Responsibilities: None

District/Division: Central Office – Construction and Materials

Effective Date: 12-16-2024

Replaces (Effective Date): 04-01-2024

General Summary

The senior core drill assistant assists the core drill operator in setting up, preparing, and operating drilling equipment to obtain material samples and data for subsurface investigations; or mobilizes an auger and/or pavement drill to obtain information for soil surveys. Responsibilities are performed under general supervision.

Minimum/Required Qualifications

- High school diploma or GED/HiSET.
- A passing grade on the written portion of the commercial driver's license (CDL) exam is required prior to the hire date. Must pass the driving portion of the Class A CDL exam with tanker endorsement, no air brake restriction, and interstate status (either Excepted Interstate [EI] or Non Excepted Interstate [NI]) within 60 days of hire into the position.
- Four years of experience in exploration drilling.
- OSHA 10-Hour certification required within 90 days.
- Successful completion of a work examination and a medical-physical examination.

Special Working Conditions/Job Characteristics

- Job requires regular, 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, including duties in heavy traffic areas, on barges in

bodies of water, on or near heavy equipment or machinery, and on steep slopes and muddy ground.

- Job may require operation of vehicles to plow snow and spread ice control materials.

Examples of Work

1. Measures and connects required lengths of drill pipe, casings or core barrel; measures and marks depth on drill casing and rods while rotary is in motion; records measurement of change in formation.
2. Prepares mud pit for return circulation; fills system with water; mixes drilling mud as required; lays out tools and equipment for ready access.
3. Checks pump for constant pressure; disassembles and cleans pump valves of obstructions; repairs pump.
4. Operates sample extractor device for removal of core.
5. Prepares for drilling operations by clearing brush or removing obstacles and setting up work zones.
6. Relieves operator during drilling; performs duties of core drill operator in absence of supervisor; and trains employees on proper equipment usage and safety procedures.
7. Mobilizes augers and/or pavement drills to different locations to obtain soil and/or pavement samples; removes samples, tags and packs samples for further testing; may contact property owners to secure entry permission into augering site.
8. Prepares water and supply trucks and drives to drilling sites throughout the state.
9. Performs other responsibilities as required or assigned.