

Missouri Department of Transportation

Code: R01317

Title: Senior Core Drill Assistant

Exemption Status: Non-Exempt

Grade: 5

Job Description

Effective Date	08-01-2023
Replaces (Effective Date)	07-01-2022
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 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]). Four 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.
Supervisory Responsibilities	None
Location	Central Office - Construction and Materials
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, including carrying out 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, casing 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 an auger and/or pavement drill to different locations to obtain soil and/or pavement samples; removes samples, tags, and packs samples for further testing; and 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.

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.