

GEOLOGICAL/PETROLEUM ENGINEER

V57710

DESCRIPTION OF OCCUPATIONAL WORK

Position allocated to this classification provide work in Geological and/or Petroleum engineering.

DISTINGUISHING CHARACTERISTICS: (A position is assigned to this class based on the scope and level of work performed as outlined below.)

Positions work under administrative direction of an administrative official. Work assignments involve independent responsibilities regarding complex engineering functions in the Geological/Petroleum engineering having statewide impact. Positions in this class regulates and reviews locations for oil and gas drilling as well as Underground Injection Control (UIC) well sites; maintains all lease and ownership records; performs related work as required.

EXAMPLES OF WORK: (A position may not be assigned all the duties listed, nor do the listed examples include all the duties that may be assigned.)

Supervises the field inspection of oil/gas and Class II/Class VI UIC wells. (Class II refers to enhanced oil recovery/saltwater disposal wells and Class VI refers to carbon dioxide capture and underground storage (CCUS) wells).

Supervises special testing programs conducted on a continuous basis during drilling operations. Maintains records of oil production from operating wells.

Obtains copies of well logs from bore holes and evaluates reservoir formation data and modelling studies.

Conducts engineering studies to determine original oil in place, primary and secondary reservoir recoverable reserves and suitability of geologic formations for proposed UIC activities.

Maintains extensive records of leases, ownership, and cooperative development for producing wells and dry holes.

Conducts geological and geophysical surveys to determine petroleum resources.

Conducts evaluations of geologic formations for the potential of induced seismicity.

Reviews drilling permits and oversees plugging procedures.

Determines gas-oil ratios of producing wells and determines allowable maximum efficient rate of production to meet regulations.

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KNOWLEDGE, SKILLS, AND ABILITIES REQUIRED: (These are needed to perform the work assigned.)

Knowledge of: the engineering principles, practices, and techniques associated with the assigned work; general management principles, techniques, and methods such as personnel and organizational management, budgeting, and employee supervision; state and federal laws and regulations associated with the assigned work; current literature, trends, developments, and practices associated with the assigned work; employing agency budgetary and fiscal policies, procedures, and practices.

Ability to: interpret, understand and implement state and federal laws and regulations, and agency standards, policies, and procedures; read interpret and evaluate engineering plans and specifications; analyze and provide guidance regarding petroleum related problems; communicate information clearly and concisely; prepare, interpret, use, and explain civil engineering plans, maps, specifications and standards and reports, communicate with the public, contractors, consultants, agency staff at all levels, and local government officials; interact with assigned workers, other agency employees, local government representatives, contractors, consultants, and the public.

MINIMUM QUALIFICATIONS: (Applicants will be screened for possession of these qualifications. Applicants who need accommodation in the selection process should request this in advance.)

Bachelor's Degree from an accredited institution in one of the following: Geology, Geological Engineering or Petroleum Engineering and 3 years of relevant industry or regulatory experience in exploration/development as a Geological or Petroleum Engineer. Experience may substitute education on a year for year basis.

SPECIAL NOTES:

State agencies are responsible to evaluate each of their positions to determine their individual overtime eligibility status as required by the Fair Labor Standards Act (FLSA).

Established: <XX/XX>

Note: Classification-specification is subject to change. Please refer to the Nebraska State Personnel Job Specification website at <https://das.nebraska.gov/personnel/classcomp/jobspecs/jobspecs.html> to ensure this represents the most current copy of the description.

The following is a summary of changes made to this class specification.

Section	Change Description	Effective Date