

GEOLOGIST 2**Nature of Work**

Under limited supervision, performs professional work at the full-performance level providing geologic services concerned with the composition and physical and biological structure of the earth. Conducts evaluation and mitigation activities in the areas of archeology, mining, construction design or impact, and/or environmental preservation or impact. May require frequent travel and field work. Performs related work as required.

Distinguishing Characteristics

This is the full-performance level of the Geologist series. Work at this level is performed with reduced supervisory oversight and incumbent has latitude for independent judgement to design and implement scientific studies and to conduct review activities within prescribed parameters. Incumbent has the latitude to evaluate problems and make recommendations for solutions. Work is characterized by duties requiring evaluation and/or negotiation skills.

Examples of Work

Reviews and evaluates contamination assessment reports and proposals, remediation specifications, remedial action plans, closure plans, and permit applications for appropriate environmental integrity.

Collects, analyzes and catalogs geologic samples.

Studies the location, character, quantity and economics of geologic deposits.

Prepares geologic maps to identify surficial and subsurface features such as: soil type, mineral deposits, permafrost, water flow, and relevant details.

Maps water flow, disposition or sediment, and ground absorption for environmental review of the effect of pollution events and/or stability of proposed projects.

Interprets geological data obtained from field monitoring devices, laboratory tests and surveys.

Participates as a team member or lead worker in resistivity and seismic surveys.

Compiles statistical data on the production and value of the State's geologic resources.

Interprets survey results and prepares formal reports.

Plans and conducts short-term research projects.

Collects, verifies, loads and manipulates geologic data for survey monitoring and mapping and interprets results.

Advises responsible parties of evaluation findings and advises, counsels and/or negotiates acceptable mitigation activities.

GEOLOGIST 2 (CONT'D)

Knowledge, Skills and Abilities

Knowledge of the principles and practices of geologic science.
Knowledge of geological methods of collection, analysis and documentation of field data.

Knowledge of federal and state geologic survey maps and reports.

Skill in the use of survey tools and equipment.

Skill in the preparation of geologic maps.

Skill in the reading and interpreting of topographic maps.

Ability to learn data input and manipulation procedures using computer software packages.

Ability to identify and classify rocks, minerals, fluids, soils and geologic information.

Ability to learn State laws, rules and regulations pertaining to geology.

Ability to utilize acceptable methods, procedures, and approaches for making a complete and satisfactory geologic investigation.

Ability to assemble data to prepare technical reports, including recommendations.

Ability to maintain records, document findings and prepare reports and correspondence regarding investigations and findings.

Ability to establish and maintain effective working relationships with co-workers, government officials, industrial representatives and the public.

Ability to communicate with others both orally and in writing.

Ability to walk long distances in adverse weather over rugged terrain.

Ability to lift and carry equipment for considerable distances.

Minimum Training and Experience Requirements

Training: Graduation from an accredited four-year college or university with a major in Geology.

Experience: Two years of full-time or equivalent part-time paid professional experience in geology, soil mechanics or related field.

Substitution: Successfully completed graduate study in Geology from an accredited college or university may be substituted on a year-for-year basis for the experience requirement.

Select Certification-Areas of Assignment: Applicant must have completed six (6) semester hours or have one (1) year of professional geologic experience in the area of specialization to be eligible.

GEOLOGIST 2 (CONT'D)

Minimum Training and Experience Requirements (cont'd)

Select certification may be requested in the following six (6) areas of specialization: (1) Coal Geology; (2) Environmental Geology; (3) Hydrology, Water Resources Geology, Hydrogeology/Groundwater Geology; (4) Petroleum Geology; (5) Land Reclamation and Soil Geology; (6) Structural Geology.

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