

**GEOLOGIST 3****Nature of Work**

Under administrative direction, performs professional work at the advanced and/or administrative level providing geologic services. Conducts complex or original research projects, or coordinates several research teams or organizational units. May involve the direct input of geological expertise into the solution of engineering problems incurred in the location, design, construction, and maintenance of highways. May require travel and field work. Performs related work as required.

**Distinguishing Characteristics**

This is the advanced and/or administrative level of the Geologist series. The assigned duties and responsibilities are complex, difficult and varied. Work requires the development and adoption of non-standard procedures and has more impact and consequence of error than the full-performance level. Incumbent possesses considerable latitude to accomplish tasks.

**Examples of Work**

Plans and evaluates the work of several organizational units or sections.

Plans, organizes, and directs long-term research projects. Supervises the work of subordinate professional and technical personnel.

Conducts specialized research at the expert level.

Reviews the written reports of professional staff for technical accuracy.

Makes expert geologic interpretation of data obtained from field monitoring devices, laboratory tests, and surveys.

Develops design corrections and solutions of problems incurred in the location, design, construction, and maintenance of highways.

Prepares detailed technical reports.

**Knowledge, Skills and Abilities**

Knowledge of the concepts and principles of geologic science with expert knowledge in a given area.

Knowledge of federal and state geologic survey maps and reports.

Ability to plan and evaluate the work of several units or sections within the agency.

Ability to plan, organize, and direct long-term research projects.

Ability to supervise the work of others.

Ability to conduct expert level research.

Ability to make expert geologic interpretation of data obtained from field monitoring devices, laboratory tests, and surveys.

## GEOLOGIST 3 (CONT'D)

**Knowledge, Skills and Abilities (cont'd)**

Ability to develop design corrections and solutions of problems incurred in the location, design, construction, and maintenance of highways.

Ability to write detailed technical reports.

**Minimum Training and Experience Requirements**

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

Experience: Four 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.

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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