

GEOLOGIST

KIND OF WORK

Professional geological work.

NATURE AND PURPOSE

An employee in this class uses professional geological knowledge and methods in the field, office, and laboratory to locate and evaluate minerals or deposits of sand, gravel, crushable rock, and other materials, or conducts geological studies as required in the solution of hydrological and waste management problems.

EXAMPLES OF WORK (A position may not include all the work examples given, nor does the list include all that may be assigned.)

Acts as chief of a field party engaged in location of highway materials through the use of visual identification, sampling, and resistivity equipment.

Makes geologic reconnaissance of bridge sites prior to exploration work to determine depth to bedrock, type of bedrock, and any unusual features, and record this information.

Conducts geological mapping, geophysical surveys, and records exploration and development drill core data.

Makes geologic investigations pertaining to water pollution.

Investigates and evaluates existing and proposed solid waste management systems.

Provides guidance and encourages cooperation between government, conservation and other private groups toward development of proper solid waste management systems.

Performs pit inspection and engineering, plant inspection and scale tests, classification of diamond drill core, and maintains effective communications between the State and representatives of industry.

Conducts laboratory identification of mineralogical materials.

Prepares correspondence and reports concerning field investigations.

Performs related work as required.

KNOWLEDGE, SKILLS AND ABILITIES REQUIRED

Knowledge of:

Considerable knowledge of the general principles of geology.

Considerable knowledge of the geological formations of the state.

Considerable knowledge of mineralogical laboratory techniques and practices.

Working knowledge of surveying, drafting, and geologic mapping.

Ability to:

Ability to supervise field and laboratory crews.

Ability to conduct laboratory studies and field work according to scientific principles.

Est.: 9/51
Ckd.: 6/10/70, 11/92

T.C.: 10/52, 3/60, 7/67
Former Title(s): Geologist I
Geologist II