

### Class Concept

Positions in this classification independently perform geological and hydrogeological work. The work involves collecting, analyzing, and interpreting geological/hydrogeological data and processes concerning surficial deposits, bedrock, groundwater resources and/or geotechnical subsurface evaluations, and may include: data collection and evaluation, mapping, report preparation and investigations of geological/hydrogeological conditions for application to industrial/economic considerations, local government planning, regulatory, and/or environmental and public health concerns; or to help locate mineral, geothermal, and petroleum deposits and underground water resources. These positions may also conduct or participate in environmental studies and prepare environmental reports and apply principles of rock and soil mechanics or any other branch of geological knowledge in the planning, design, construction, operation, and safety of engineering projects.

### Recruitment Standards

#### Knowledge, Skills, and Abilities

- Thorough knowledge of the concepts, principles, and theories of either geology/hydrogeology, geosciences, geomorphology, fluvial geology or other branch of technical geological knowledge, and knowledge of geological research processes
- Thorough knowledge of data gathering techniques and procedures; skill and ability to plan geological or geomorphological studies, or research/projects
- Ability to analyze, manipulate, and evaluate scientific information/data, including the use of software
- Ability to formulate or assist with programs/projects for completeness, compatibility, compliance with geologic principles and standards
- Ability to analyze and interpret geological/hydrogeological data and processes concerning surficial deposits, bedrock, groundwater resources and/or geotechnical subsurface evaluations
- Ability to review plans and/or data for completeness, compatibility, compliance with geologic principles, standards, and design needs
- Ability to evaluate and approve program/project specifications for completeness, compatibility, compliance with geologic principles
- Ability to communicate with the public and clients and ability to organize and supervise the work of others

#### Minimum Education and Experience

Bachelor's degree in geology, geosciences, physical science or a related field, or engineering with 30 credit hours of geological science course work from an accredited college or university. Some positions may require licensure as a Professional Geologist by the North Carolina Board for the Licensing of Geologists; or an equivalent combination of education and experience.

Note: This is a generalized representation of positions in this class and is not intended to identify essential functions per ADA.