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# Environmental Scientist I (Hydrologist/Geologist)(Job Id 9751)

**Location:** Vermillion

**Employment Type:** Permanent Employee

**Agency:** Environment & Natural Resources

**Post Date:** 03/12/2018

## Description

**PLEASE ATTACH THE ADDITIONAL REQUIREMENTS LISTED AT THE BOTTOM OF THIS PAGE**

Job ID: 9751

Agency: Department of Environment and Natural Resources; Division of Financial and Technical Assistance; Geological Survey Program

Salary: \$21.60 per hour

Grade: ES1

Closing Date: Open Until Filled

For more information on the Department of Environment and Natural Resources, please visit <http://denr.sd.gov/>.

This position will perform work related to the documentation, mapping, and interpretation of South Dakota's surface and subsurface geology and hydrogeology, and will focus on glacial sediments that cover most of eastern South Dakota. Bedrock geology will also be a component of the work as will hydrogeologic conditions associated with the various glacial and bedrock units.

Some specific duties will include the following:

- assist in the planning of drilling and well installation projects having the goal of defining subsurface geology and hydrogeology;
- perform the duties of a rig-side geologist to include the logging of test holes and wells that are drilled for the Geological Survey's investigations;
- operate a down-hole geophysical logging unit and interpret the logs;
- assist in the development of monitoring wells and collect water samples from wells;
- perform field mapping of glacial geology for publication at scales of 1:24,000 or 1:100,000;
- create maps of surface and subsurface geology and construct cross sections;
- compile and interpret geologic and hydrologic information for inclusion in reports or for dissemination through online databases and interactive maps;
- prepare written technical reports that are suitable for publication by the Geological Survey Program;
- update information in databases maintained for geophysical logs, records of test holes and wells, and water quality.

The successful candidate must hold a valid driver license and must either have, or obtain, a Class A or B commercial driver's license (CDL) within 6 months of the hire date. The license is necessary so that the successful candidate can drive water trucks that are used in the Geological Survey's drilling

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activities, if the need arises. The incumbent will be subject to pre-employment, random, reasonable-suspicion, post-accident, follow-up and return-to-duty drug and alcohol testing.

Some travel will be required, including overnight stays. Fieldwork can occur in a wide range of weather conditions and may occasionally require the lifting of up to 50 pounds.

Normal work hours are 8:00 A.M. to 5:00 P.M., Monday through Friday. However, fieldwork may require the flexing of the work schedule to include longer work days but not to exceed 40 hours per work week.

**The Ideal Candidate Will Have:**

Only candidates having a bachelor's degree in geology, earth science, or a closely related field will be considered. A master's degree is preferred.

Knowledge of:

- glacial geology and glacial processes;
- South Dakota's surface and subsurface geology;
- hydrogeology, particularly in glacial sediments;
- geographic information system (GIS) software;
- down-hole geophysical logs;
- field mapping of glacial geology.

Skill to:

- write understandable, complete, and accurate technical reports.

Ability to:

- use basic computer applications such as Microsoft Office;
- work independently as well as with teams;
- construct and interpret cross sections, structure-contour maps, isopach maps, and geologic maps;
- proficiently use geographic information system (GIS) software;
- use and interpret subsurface geology using down-hole geophysical logs;
- effectively map surface and subsurface geology.

**Additional Requirements: To be considered, please attach a recent writing sample such as a college term paper or technical report.**

*VETERANS' PREFERENCE ELIGIBLE*

The State of South Dakota offers paid employee health insurance plus ten paid holidays, generous vacation leave accrual, and medical, dental, vision, and other benefits. For more information visit <http://bhr.sd.gov/workforus/workbenefits.aspx>.

Apply at: <http://tinyurl.com/ycygb14m>

South Dakota Bureau of Human Resources

500 East Capitol

Pierre, SD 57501-5070

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