

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES ▼
HUMAN RESOURCES ENTERPRISE
GEOLOGICAL TECHNICIAN

DEFINITION

Obtains, catalogs, and stores samples of core materials obtained through well drilling for laboratory analysis; assists geologists in field work; performs related work as required.

The Work Examples and Competencies listed are for illustrative purposes only and not intended to be the primary basis for position classification decisions.

WORK EXAMPLES

Collects samples of core and cuttings from well drillers; assists in the operation of a drill rig in the field.

Prepares geological samples of well and core cuttings for laboratory analysis by professional geologists.

Prepares labels for samples and stores geological core samples under the guidelines of an established filing system.

Distributes log books and sample bags to well drillers for their use in obtaining and logging core samples; collects log books and samples.

Operates earth resistivity survey equipment to determine the type of rock formation to a 100-foot depth.

Obtains water samples to be analyzed in the laboratory; labels samples as to location, date obtained, etc.

Maintains geological equipment such as a drill rig by performing daily preventive maintenance to insure that the equipment is functioning properly.

Maintains geological samples for the laboratory; retrieves for analysis and review by professional geologists.

Examines samples from core drillings in order to advise drillers of probable location and depth of core in a formation, referring difficult or complex questions to a professional geologist.

COMPETENCIES REQUIRED

Knowledge of drill rigs, and their maintenance and operation.

Knowledge of the proper methods used in obtaining core and well drilling samples.

Knowledge of the proper methods used in obtaining water samples.

Knowledge of the proper methods utilized in preparing well and core samples for laboratory analysis.

Knowledge of the proper labeling and storing of well and core samples.

Knowledge of the filing system used in storing samples.

Knowledge of elementary physical and mechanical principles and earth science.

Ability to gather well core and water samples correctly.

Ability to store samples for later retrieval according to established policy.

Ability to obtain the cooperation of drillers in getting geological samples.

Ability to operate an auger rig.

Ability to work out of doors under any type of weather condition and to withstand physically demanding work (lifting up to 100 pounds, bending, etc.).

Displays high standards of ethical conduct. Refrains from dishonest behavior.

Works and communicates with all clients and customers providing polite, quality professional service.

Displays a high level of initiative, effort, attention to detail and commitment by completing assignments efficiently with minimal supervision.

Follows policy, cooperates with supervisors and aligns behavior with the goals of the organization.

Fosters and facilitates cooperation, pride, trust, group identity and team spirit throughout the organization.

Exchanges information with individuals or groups effectively by listening and responding appropriately.

EDUCATION, EXPERIENCE, AND SPECIAL REQUIREMENTS

Graduation from high school or G.E.D. and nine months of work full-time experience involving the operation of drill rigs and/or obtaining geological samples;

OR

an equivalent combination of education and experience substituting six semester hours of accredited post high school education in geology or physical geography for the required experience.

NOTE

Positions in this classification may be assigned throughout the state. Applicants for this class may be required to obtain a valid driver's license.

Effective Date: 04/10 DDF