

DESCRIPTION: Under limited supervision, performs highly technical and complex geological/hydrogeological professional work including the development of high level scientific and technical geohydrology data and groundwater models used to determine the need for, and carry out implementation of, integrated groundwater/surface water management plans; performs related work as assigned.

DISTINGUISHING CHARACTERISTICS: (A position is assigned to this class based on the scope and level of work performed as outlined below).

This is the second classification level of three in the Integrated Water Management class series (Specialist, Analyst, Coordinator). Positions allocated to this class work at full performance in the implementation and oversight of integrated water management plans. Work includes identifying the need for a study, deciphering what technical data is necessary to collect and how the study results are interpreted and put into practice. This class is differentiated from the Specialist level by the complexity of technical work performed in integrated water management planning. This class is also differentiated from the Coordinator level by the lack of supervisory responsibilities of other Integrated Water Management division staff.

The Integrated Water Management Planner class is responsible for organizing technical data and documents to create and ensure federal and State compliance of integrated water management plans.

EXAMPLES OF WORK: (A position may not be assigned all the duties listed, nor do these examples include all the duties that may be assigned).

Reviews and analyzes existing geology and geohydrological data to determine extent of hydrological connection between surface water supplies, ground water reservoirs and aquifers within the state.

Determines type of technical data needed for the agency and Natural Resource District's to develop and implement integrated surface water/groundwater management plans.

Reviews adequacy of existing groundwater models and develops groundwater models in the implementation of the integrated water management plans.

Conducts technical assessments on the adequacy of all tools used in integrated water management plans to ensure successful accomplishment of plan goals.

Provides input on consultant selection and oversees their work in the development of technical information as part of the creation of integrated water management plans.

Provides technical review of applications for municipal induced recharge permits and other groundwater permits.

Assists the Information Technology section in developing an integrated water management database.

Presents research lectures and workshops explaining surface and groundwater relationships as pertaining to integrated water management planning.

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Develops work teams and serves as the lead for other department staff as needed in creating, planning and implementing integrated water management plans and research.

Assists with the financial oversight of integrated water management planning including consultant selection/fees, staff additions/recommendations, research costs, etc.

Attends professional scientific conferences and programs and utilizes professional research literature to stay current and maintain expertise in the rapidly changing field of hydrogeology.

KNOWLEDGE, SKILLS AND ABILITIES REQUIRED: (These are needed to perform the work assigned.)

Knowledge of: scientific understanding of surface and groundwater hydrology and geology; groundwater modeling and water use measurement and assessment technologies; various groundwater modeling computer programs; integrated management planning processes; statistical and mathematical models as applied to the analysis and interpretation of hydrology and geology data.

Skill in: developing and analyzing groundwater models; applying other hydrologic and system analysis techniques; explaining the results of these analyses to decision makers; understanding and comprehending written documents; using logic to identify alternative solutions or conclusions.

Ability to: learn and apply Nebraska's surface and groundwater laws; think logically and understand surface and groundwater systems and the analyses of these systems; organize and analyze available information and reach sound conclusions; work as a team leader with staff of the Department, Natural Resources Districts and consultants to develop and analyze surface and groundwater systems, analytical tools and products of those tools; communicate highly technical information to other technical experts and the general public; organize and write technical reports; be an expert witness in court proceedings; select, compile and analyze information as necessary to identify, substantiate and solve a scientific or technical problem and prepare reports based on that analysis.

MINIMUM QUALIFICATIONS: (Applicants will be screened for possession of these qualifications. Applicants who need accommodation in the selection process should request this in advance).

Master's degree in Hydrology, Hydrogeology, Geology, Engineering or Natural Sciences and two years of experience in groundwater hydrology, geology or groundwater modeling. OR a Bachelor's degree in any of the above mentioned fields and four years of experience in groundwater hydrology, geology or groundwater modeling.

SPECIAL NOTE:

State agencies are responsible to evaluate each of their positions to determine their individual overtime eligibility status as required by the Fair Labor Standards Act (FLSA).