

STATE OF NEBRASKA CLASS SPECIFICATION  
**INTEGRATED WATER MANAGEMENT SPECIALIST**

EST: 01/10 – REV: 10/11  
CLASS CODE: E45511

**DESCRIPTION:** Under general supervision, performs specialized and complex analyses of geological/hydrogeological technical data for use in the integrated surface water/groundwater management planning process; 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 first classification level of three in the Integrated Water Management class series (Specialist, Analyst, Coordinator). Positions allocated to this class are responsible for the analysis of geological/hydrogeological technical data to identify hydrological connections. The Integrated Water Management Analyst class is the full performance level whereby positions perform professional, highly technical and more complex work to develop data and groundwater models and determine the need for and implement integrated water management plans. Positions allocated to the Integrated Water Management Coordinator class have full supervisory responsibility for others allocated to lower levels within this class series and other positions within the Integrated Water Management division.

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).

Develops scientific and technical data and analysis for the integrated surface water/groundwater management planning process.

Conducts specialized and complex hydraulic and hydrologic analysis on relationships of groundwater/surface water and compares technical analysis for compacts, decrees and integrated agreements.

Reviews and analyzes existing geology and geohydrological data to determine extent of hydrologic connection between surface water supplies, groundwater reservoirs and aquifers and analyzes affects on current and future usage.

Completes tasks for research programs to carry out integrated water management activities; participates in research efforts; identifies the best sources to study to obtain requested information/data.

Provides technical basis for integrated water management plans.

Assists Department and Natural Resources District staff in implementing integrated water management plans.

**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, rules and regulations; 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; understanding and comprehending written documents; using logic to identify alternative solutions or conclusions.

Ability to: learn, interpret and apply Nebraska's surface and groundwater laws; interpret data obtained from instruments and equipment; organize and analyze available information and reach sound conclusions; think logically and understand surface and groundwater systems and the analyses of these systems; analyze surface and groundwater systems, analytical tools and products of those tools; communicate technical information to other technical experts and the general public; organize and write technical reports; combine pieces of information to form general rules or conclusions including finding a relationship among seemingly unrelated events; 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).

Bachelor's degree in Hydrogeology, Hydrology, Geology, Engineering, Natural Sciences or related field and 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).