

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES ▼  
HUMAN RESOURCES ENTERPRISE  
ENVIRONMENTAL SPECIALIST SENIOR

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**DEFINITION**

Develops state environmental program concepts, rules and policies, or leads an environmental program area in a region or statewide; performs advanced professional work in an environmental or health control program such as air quality, water quality, water supply, animal feeding operations, integrated solid waste management, chemical technology, hazardous waste technology, or underground storage tanks program; or biological/environmental management program; 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**

Assists supervisor by instructing employees, answering questions and distributing, balancing and checking work; may make suggestions on selection, promotions and reassignments.

Develops, implements, and reviews, or participates in the development, implementation, and review of, rules, policies, methods, and techniques, relating to the assigned environmental program area on a statewide basis.

Identifies and coordinates the institutionalization of integrated solid waste management principles into state programs and partnerships, or coordinates integrated solid waste management evaluations at major industrial and manufacturing facilities.

Reviews various reports, permit applications, or other documents to insure conformance with departmental rules, policies, and technical standards; program consistency, documents technical inaccuracies and deviations from departmental policy.

**COMPETENCIES REQUIRED**

Knowledge of the principles, practices, terminology and techniques of natural science relating to environmental control, and how those areas are applied in industry.

Knowledge of state, federal, and local environmental control laws, rules, and regulations and their application to environmental programs.

Knowledge of chemicals, their environmental interactions and persistence, and the toxic or hazardous properties of chemicals.

Knowledge of hydrogeologic principles, fate and transport of chemicals in groundwater, and experience in use of computer models predictive of contaminant movement in the environment.

Knowledge of biological systems and resource management.

Knowledge of the use of geographic information systems to organize, display and evaluate information on a relational basis.

Knowledge of state, federal, and local environmental control laws, rules, and regulations pertaining to technical responsibilities, including architectural-historical and archeological assessments/reconnaissance and surveys.

Ability to gather and interpret scientific data and facts.

Ability to apply scientific knowledge to specific issues.

Ability to develop, read, interpret, and understand environmental control laws, rules, and regulations.

Ability to organize and conduct technical and scientific investigations, apply regulations and policies, and report results.

Ability to perform statistical computations, to prepare and interpret charts, tables, graphs, and maps, and to prepare and present detailed scientific or administrative reports of findings and analyses, orally or in written form.

Ability to plan and organize own work, and to oversee the work activities of lower level professional and technical personnel.

Ability to use and evaluate information using Geographical Information Systems.

Ability to make decisions under potentially stressful situations.

Ability to perform complex mathematical calculations.

Ability to generate computer reports and data analysis.

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

Works and communicates with all clients and customers providing 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 an accredited college or university with a Bachelor's Degree in a Natural Science and three years of full time professional scientific experience in an environmental program in the areas of water supply, waste water, animal feeding operations, hazardous substances, radiation, sewage treatment, solid waste, geology, history, archeology, flood plain, air pollution, dam safety, or underground storage tanks;

OR

an equivalent combination of education and experience substituting one year of the required full-time professional work for each 30 semester hours of the required education;

OR

an equivalent combination of education and experience, substituting thirty semester hours of accredited graduate level coursework in a Natural Science, history, or archeology for each year of the required experience to a maximum substitution of two years;

OR

employees with current continuous experience in the State of Iowa Executive Branch that includes twenty-four months of full-time work as an Environmental Specialist or Environmental Engineer.

Effective Date: 02/13 BR