

 <p>STATE OF INDIANA CLASSIFICATION SPECIFICATION</p>	Class Title: Environmental Engineer 1		Class Code: 001DO1
	FLSA Status: Exempt	Salary Schedule: RDS	Effective Date: 10-17-14
	Summary: Incumbent serves as a staff technical consultant for the purpose of research and evaluation of technical and engineering subjects related to water pollution control.		

Duties:

- Formulates technical design of agency guidelines for approval;
- Serves as representative of agency on national associations concerned with standards applicable to revisions of design standards and discussion of new developments;
- Serves as representative of higher management in the technical formulation of federal regulations and provides comment, on behalf of agency, to proposed rules and regulations of federal government and other states;
- Conducts intensive investigations, considering multiple factors in determining action to be taken for compliance;
- Consults with representatives from other states, federal government, consulting engineers, university staff, agency staff and others in determining agency approach to new pollution problems;
- Serves as project officer in certain sub-grants, between the U.S. Environmental Protection Agency (EPA) and sub-grantees, to determine efficient utilization of grant monies;
- Formulates agreement with the U.S. EPA for the progressive transfer of pollution control authority from the federal agency to the state agency;
- Occasionally prepares position papers for higher management on pollution problems not directly approached via laws or regulations;
- Performs related duties as required.

Job Requirements:

- Extensive knowledge of the principles, practices and theories of engineering as applied;
- Thorough knowledge of and ability to apply pertinent state, federal and local rules, regulations and ordinances and ability to modify or assist in modification of regulations as necessitated by technology;
- Extensive knowledge of the environmental sciences, especially those areas of biology, chemistry and engineering which relate to pollution control principles;
- Thorough knowledge of the structure and functions of various sections within the division and the ability to coordinate section roles to achieve an acceptable solution to individual problems;
- Working knowledge of accounting and economic principles and practices as applied to the cost benefit analysis, grant processes and value engineering;
- Ability to conduct intensive literature surveys, inspections and research for technical advancement of the programs and investigations and to prepare reports for the use as evidence and basis for recommendations for action;
- Effectively communicate, both orally and in writing, in individual and or group situations, in order to discuss and review highly technical information to reach a common solution which is economically and environmentally sound;
- Ability to develop programs, define procedures and prepare schedules to accomplish set objectives;
- Ability to technically review plans, specifications and control systems with emphasis on identification of adverse economic and environmental impacts and to choose and recommend sound alternatives.

Difficulty of Work:

The incumbent is required to observe and evaluate environmental conditions and make decisions as to adequacy and compliance and recommendations for action. These functions demand the ability to analyze and apply technical and regulatory knowledge under conditions in which multiple variables must be considered. Work is non-routine and requires extensive judgment in working to interpret environmental health laws.

Responsibility:

General goals are established by supervisor; however, incumbent must determine course of action and initiate a response toward the goal. Supervisors, for overall compliance with agency policies and procedures, review projects. The incumbent's technical recommendations, as a result of research projects and in the form of proposed rules and regulations, are instrumental in shaping the direction and effectiveness of water pollution control program.

Personal Work Relationships:

This specialist works as a consultant with a variety of individuals and groups including representatives of industry, community public facilities and agencies. Elected officials of the federal, state and other states' governmental agencies, numerous interstate boards and commissions and owners of private businesses to interpret and gain support of laws and regulations and to implement, and occasionally modify, the programs and policies of the agency.