

 <p>STATE OF INDIANA CLASSIFICATION SPECIFICATION</p>	Class Title: Hydraulic Engineer 1		Class Code: 001DD1
	FLSA Status: Exempt	Salary Schedule: RDS	Effective Date: 10-25-13
	Summary: Incumbent serves as a senior level Hydraulic Engineer coordinating work in the Department of Natural Resources (DNR) with the general purpose being to provide information and technical service in the area of hydraulic engineering and hydrology to other governmental units and the general public.		

Duties:

- Coordinates work of section staff providing technical assistance and review;
- Makes recommendations to Branch Chief for section objectives and guidelines and on possible solutions to complex problems;
- Reviews and analyzes data obtained in the field, frequently making on site inspections in complex situations;
- Compiles and analyzes various hydraulic data, such as U.S. Geological Survey data, historical flood data, etc.;
- Analyzes hydraulic problems relative to assigned area;
- Reviews construction and planning involving water resources often making technical recommendations to private and government enterprises, issuing permits and processing violations, if assigned;
- Conducts field surveys to evaluate site conditions,
- Trains staff on design methods and concepts,
- May serve as an expert witness for litigation on contract disputes,
- Performs related duties as required;

Job Requirements:

- Extensive knowledge of hydrology, hydraulics and hydraulic engineering;
- Extensive knowledge of laws and regulations relative to area;
- Extensive knowledge of construction as it relates to hydrology;
- Specialized knowledge of statistics as they apply to hydrology;
- Working knowledge of surveying and surveying principles;
- Ability to comprehend and complete hydraulic computations, reports and plans;
- Ability to coordinate and supervise work of others;
- Ability to communicate in oral or written form;
- Ability to maintain cooperative work relationships;
- Ability to obtain registration as a Professional Engineer.

Difficulty of Work:

Incumbent follows generally applicable technical guidelines of hydrology and hydraulic engineering and administrative guidelines of the division in performing duties. Extensive judgment is needed in adapting guidelines to many complex and significant variables which are frequently new in basic character or circumstances, such as construction variables, type of water resource and applicable administrative guidelines.

Responsibility:

Incumbent works as the technical expert and section head. Incumbent makes technical decisions and makes recommendations on administrative procedures and section objectives to higher-level supervision. Work is reviewed for attainment of general objectives and compliance with agency policy.

Personal Work Relationships:

Incumbent is in contact with other staff members, other governmental agency staff and the general public in rendering technical service and maintaining coordination between private construction and general hydraulic maintenance.

Working Conditions:

Incumbent spends a majority of time in an office environment with minimal physical exertion. Occasionally, incumbent must work outdoors (e.g. field inspections).