

Title: Advanced Hydraulic Design Engineer	Effective Date: October 26, 2016	Grade: XV	Job Category: Professional
Prior Title: Advanced Hydraulic Design Engineer	Prior Effective Date: September 1, 2016	Grade: XV	Page: 1 of 1

CHARACTERISTICS OF WORK

Under general technical supervision of the Staff Hydraulic Engineer and Hydraulic Engineer, this position is responsible for coordinating and completing independent hydrologic and hydraulic analyses for structures traversing a water course and other highway drainage related projects.

EXAMPLES OF WORK

The following examples are intended only as illustrations of various types of work performed. No attempt is made to be exhaustive. Related, similar, or other logical duties are performed as assigned. The Department may require employees to perform functions beyond those contained in job descriptions. The Department may modify job descriptions based on Department needs. The Arkansas State Highway and Transportation Department is an "at will" employer.

- Conduct independent hydrologic and hydraulic investigations and analyses for bridges and other hydraulic structures.
- Coordinate, input and interpret complex hydrologic and hydraulic computer programs.
- Investigate highway related drainage problems statewide for operational hydraulic solutions.
- Coordinate hydrology and hydraulic design with other federal, state and local agencies.
- Prepare detailed analytical reports in connection with hydrologic and hydraulic studies.

MINIMUM REQUIREMENTS

Possession of a current *Arkansas* license to practice professional engineering or graduation from an EAC of ABET approved engineering curriculum or equivalent as judged by the Arkansas Board of Registration for Professional Engineers and Land Surveyors. Engineer Intern certification required. Knowledge and experience in computer technology and all phases of hydrologic and hydraulic engineering. Technical writing capabilities.

("EAC of ABET" means Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.)

