

Title: <b>Advanced Hydraulic Design Engineer</b>	Effective Date: September 17, 2008	Grade: XV	Job Category: Professional
Prior Title: Advanced Hydraulic Design Engineer	Prior Effective Date: August 24, 2007	Grade: XV	Page: 1 of 1

**CHARACTERISTICS OF WORK**

Under general technical supervision of the Hydrologic and/or 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. This position supervises one (1) or two (2) technical employees engaged in developing and assembling data required for hydraulic engineering studies.

**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 desired. 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.)