

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

**CHARACTERISTICS OF WORK**

This position is accountable for the design of bridge projects to provide construction plans meeting state and federal requirements under direct supervision of staff and senior design engineers.

**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.

- Evaluate survey, soil and hydraulic data and design bridge types as directed by the Staff, Senior, or Advanced Bridge Design Engineer for inclusion in the project plans.
- Produce layouts, structural details and related technical drawings using computer-aided design and drafting (CADD).
- Assemble design drawings, specifications and bid quantities and make cost estimates for completed bridge projects.
- Analyze existing bridge structures for load capacity as part of the states continuing bridge inspection and rating program.
- Coordinate with structural detailers in plan preparation of projects which they have designed.

**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. Bridge design experience and general working knowledge of the design and construction specifications and materials for all types of bridges commonly constructed by the Department.

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