

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

### CHARACTERISTICS OF WORK

Under general supervision of Staff and Senior Structures Engineers, this position is responsible for determining load capacity ratings on all public bridges.

### 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.

- Perform in-depth structural analysis for determining load capacity ratings of the more complex highway bridges.
- Provide supplemental on-site inspection of bridges.
- Assist in coordinating load capacity rating and structure inventory activities.
- Investigate the adequacy of a structure(s) to support overloads and prepare recommendations regarding permit requests.

### 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. Thorough knowledge of bridge structural analysis, design, and load capacity rating techniques.

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

