

## Professional Civil Engineer

Job Code	Job Title	Pay Grade
8259B1	Professional Civil Engineer I	34
8260B1	Professional Civil Engineer II	36

### CONCEPT:

This is professional civil engineering work.

### TASKS:

#### PCE I

- Supervises activities of major traffic, planning or research functions making decisions concerning the allocation of time, equipment and staffing; establishes criteria and goals for data collection and analysis; supervises preparation of statistical data including projected traffic figures, to be used by the state.
- Directs a unit of engineers and technicians responsible for the design of roadways, bridges, interchanges or structures; resolves technical engineering problems.
- Provides professional guidance for and directs all highway construction and maintenance projects and has responsibility for all administrative activities in a multi-county or complex urban geographic area; supervises subordinate engineers and/or highway maintenance superintendents; coordinates the scheduling of personnel, materials and equipment to complete projects with maximum efficiency and safety, and with minimal delay and inconvenience to the public.
- Oversees, recommends, and approves the review of engineering plans and specifications for permits for the states water regulation agency.
- Reviews and interprets specifications, construction plans, and drawings to determine intent; resolves conflicts between contractors and agency personnel regarding intent of plans, specifications, and drawings.
- Reviews highway permits and agreements for correctness, feasibility, and conformity with agency policies.
- Serves as liaison person to cities and counties within the area to explain agency programs, policies, and procedures.
- Supervises the preparation of, or reviews complete construction plans for projects including cost estimates and detailed working drawings.
- Assists local government units in planning projects by reviewing requests for assistance, city ordinances, and county resolutions; provides expertise regarding design and construction of projects and compliance with state and federal criteria.
- Provides coordination within agency statewide, and with municipalities, utilities, and railroads concerning uniform maintenance procedures and other matters requiring uniformity.
- Responsible for the development and revision of engineering criteria manuals.
- Conducts research on some aspect of transportation, analyzes the data and makes reports which provide alternatives for managers.
- Prepares contracts and scopes of work for conducting field inspections of water right installations to be conducted by engineering firms under contract with the agency.
- Evaluates check valves and flow meters to determine if they meet specifications; and prepares revisions of specifications for adoption by the Chief Engineer.

#### PCE II

- Directs a major engineering function of a statewide highway program such as the development of highway or bridge plans, all material testing, special highway studies and planning, or other engineering functions of comparable scope and complexity.
- Serves as a principal assistant to a major engineering department supervisor by coordinating internal department operations and providing professional guidance and direction in a specialized area such as the computer-aided drafting and drawing system.
- Establishes and directs the maintenance of a system to schedule and monitor all highway preconstruction activities; provides coordination required to meet established deadlines and priorities.

- Oversees all construction, maintenance, or materials activities for a large geographic area.
- Directs a major technical support function for the state's water regulation and administration agency by planning, scheduling and supervising engineers and hydrologists.
- Directs preparation of detailed reports of hydrologic analyses and investigations pertaining to water management and regulations for both interstate and intrastate matters; may testify as an expert witness at hearings or in court cases.
- Directs statewide regulatory programs such as dam safety programs, watershed analysis, water structure inventories, or other permit and approval programs.
- Conducts independent research; analyzes data and recommends alternatives.

## **LEVELS OF WORK**

- Class Group consists of two classes.

**Professional Civil Engineer I:** This is professional civil engineering work. Work includes responsibility for the engineering and related technical and administrative activities which occur in an area within a district, or the projects of a specified subject or a bureau. Some positions in this class are used to provide technical, analytical, engineering expertise to a bureau, division, or the agency; these positions typically do not supervise but serve as a consultant.

**Minimum Requirements:** Professional Engineering license recognized by the Kansas Board of Technical Professionals and four years of experience in engineering.

**Professional Civil Engineer II:** This is supervisory or specialized professional civil engineering work. Work involves directing a major engineering function of a statewide program, directing all highway construction activities in a geographic district or performing work in a specialized phase of engineering, which includes serving as an expert technical specialist. Except for the technical specialist, this class entails the administrative and supervisory responsibilities which are involved in the direction of a major project or unit.

**Minimum Requirements:** Professional Engineering License recognized by the Kansas Board of Technical Professions and six years of experience in engineering.

REF: 12/13

REV: 7/14

REV: 6/16

REV: 10/22