

Building System Engineers

Job Code	Job Title	Pay Grade
8276B1	Building Systems Engineer III	38

CONCEPT:

Professional mechanical, electrical or structural engineering work encompassing the design, review and/or modification involving large buildings and building systems projects.

TASKS:

- Consults with state agencies and assists with needs assessment and the preparation of building design programs including accurate budget estimates used as a basis for appropriating funds.
- Designs building systems in order to complete the required schematic plans, specifications and budget estimates used as a basis for budgeting appropriations for the construction of complicated building facilities in connection with a variety of state construction projects.
- Coordinates the work of engineering consultants. Provides leadership in organizing and prioritizing decision making required to design buildings and prepare bid documents for building projects.
- Prepares and directs the preparation of final drawings, specifications, estimates and other construction documents used in obtaining bids and directing the building construction process.
- Conducts on-site studies and measurements of existing conditions in and around state institutions and buildings for proposed repairs, replacements, or new installations of a complex nature; serves as consultant on such projects in order to obtain the desired result for the institution and within the scope of sound professional practice.
- Reviews pay voucher submittals, writes change orders, maintains project correspondence files, checks shop drawings, accomplishes necessary field inspections and resolves field problems.
- Reviews preliminary and final plans and specifications for complex building projects in order to determine compliance with professional engineering practices and established standards, codes, and regulations and makes recommendations as to acceptance or revision.
- Oversees professional subordinates engaged in the review of preliminary and final plans submitted by project architects and engineers in order to assure correctness and conformity with contract requirements or designing portions of major projects.
- Participates in and assists with the training of staff as they seek to learn the required processes to become licensed engineers.

LEVELS OF WORK

- Class Group consists of two classes.

Building Systems Engineer II – Work is broad in scope, providing the opportunity for seasoned judgment and coordination, in the design, review and/or modification of the building systems of large and varied projects. Most incumbents serve as project leaders on major projects. Coordinates the work of engineering consultants and advises and consults with architects and engineers on layout and design of buildings, systems and equipment required by the user agency.

Minimum Requirements: Licensed as a professional engineer by the Kansas Board of Technical Professions and three years of experience as a licensed engineer.

Building Systems Engineer III – At this level, the work is managerial and requires administrative decision making. Employee has responsibility for approval of all plans and specifications in the design, review and/or modification of building systems on large and varied projects. Work at this level will also include: Assisting in the process of qualifying, evaluating and selecting engineering firms for consideration by the State Building Advisory Commission and the agency negotiating committees. Assisting with preparing building program evaluations and wording to be used in contracts. Participating in the preparation and verification of agency project budgets which become the basis for state funding by appropriations. Participating in the formation, development and maintenance of the policies and procedures for implementing the state's design and building

construction process; and consulting with management on current and long range plans to determine or justify project feasibility.

Minimum Requirements: Licensed as a professional engineer by the Kansas Board of Technical Professions and five years of experience as a licensed engineer.

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