

WASHINGTON STATE DEPARTMENT OF PERSONNEL

Specification for Class of

ENERGY SYSTEMS ENGINEER (46170)

Abolished Initially Effective January 13, 2006

Abolished Final Effective February 10, 2006

Definition: Plans, develops and directs statewide energy engineering projects and programs for the Department of General Administration. Provides technical energy engineering consulting services in the areas of commercial and institutional energy conservation, building commissioning and other building energy efficiency programs.

Typical Work:

Designs and presents energy management and resource project proposals which defines problems and specifies methodology and resource expenditures required for solution; coordinates and directs all necessary resources of the office in carrying out assigned project;

Manages a statewide project or program pertaining to energy efficiency, building commissioning or other energy related project or program in public facilities. Conducts in-depth engineering and financial investigations and analysis of the projects and prepares a realistic appraisal of costs and benefits realized or anticipated from successful completion;

Develops a detailed schedule of tasks to be performed; identifies and assigns resource responsibility for each task;

Prepares project progress reports to apprise top management (the Governor, the legislature and Federal agencies) of status of projects in order that appropriate adjustment or changes can be made to meet goals and objectives;

Prepares and presents project findings and develops plans for the integration of projects into ongoing programs and systems;
provides consultation on implementation of recommendations;

Coordinates engineering research into the feasibility of utilizing energy supplies to the maximum efficient extent, including current and probable technologies;

Administers contracts with consulting firms and others to include overseeing and reviewing the contractor's work;

May supervise staff;

Performs other work as required.

Knowledge and Abilities:

Knowledge of: principles and techniques of energy management and data analysis; systems and procedures analysis and reporting; principles of administration and supervision; research methods and problem-solving techniques; engineering theory, principles and practices, particularly related to building design and operation; industrial processes.

Ability to: conceive, plan, direct and coordinate energy management analysis and resource programs; analyze and interpret complex data; establish and maintain effective working relationships with top

ENERGY SYSTEMS ENGINEER

46170

management; develop methods and techniques for solving varied complex energy engineering problems; write reports clearly and effectively.

Minimum Qualifications

A Bachelor's degree in civil, mechanical, electrical or other accredited engineering curriculum.

AND

Four years of professional level experience performing energy engineering or related work, one of which must have been as a licensed professional engineer.

AND

Registration as a professional engineer in the State of Washington or another state based on registration requirements equivalent to those in Washington.

Registration as Engineer-In-Training will substitute for education.

NOTE: Requirements for professional registration as an engineer in the State of Washington are eight years of professional experience (which may include up to four years of college-level engineering education) and successful completion of sixteen hours of professional licensing exams. Applicants qualifying through the licensing equivalency option must achieve professional registration as an engineer in the State of Washington within six months of appointment to this class.

New class: 2-15-78

Revised definition: 10-12-79

Revised minimum qualifications: 5-9-86

Revised definition and minimum qualifications: 12-15-89

Revised minimum qualifications: 11-15-91

Revised definition: 5-9-01