

Salary Schedule	MOU	Benefits
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City of Alameda
Code No.7057
Approved by C.S.B.
February 2, 1994

SENIOR ENERGY RESOURCES ENGINEER

DEFINITION

Under general direction administers power system and energy resource planning, evaluation, contracting, procurement, development and operation activities: performs other related work as required.

EXAMPLES OF DUTIES

1. Conducts and/or coordinates research, data collection, analytical studies, cost analyses and evaluation of energy and power needs and resources.
2. Prepares or supervises preparation of forecasts of sales and system demands and energy resource requirements including the effect of demand-side management activities.
3. Prepares or supervises the preparation or use of economic and financial models to predict resource costs, evaluate resources, budget energy supply and delivery costs, project fuel and energy costs, forecast customer response to rates, analyze power pool operations, and allocate the costs of service to customers.
4. Audits or supervises the auditing of the allocation of power pool costs, energy bills, and energy cost accounting.
5. Applies various computer applications in the preparation of studies, analysis, reports, etc.; performs computer programming as needed in areas such as forecasting and cost modeling.
6. Identifies, evaluates and makes recommendations regarding power supply and delivery resources and generation technologies; pursues acquisition or implementation as directed.
7. Prepares, reviews, and negotiates contracts and other agreements for the development, purchase, sale, and operation of power and energy supply and demand-side management resources, including fuels such as natural gas.
8. Develops cost effective and environmentally responsible integrated resource plans reflecting demand-side and supply-side factors.
9. Participates in evaluating the technical and economic potential and effectiveness of load management and energy efficiency measures.
10. Represents the Bureau as assigned on technical or contractual matters addressed by the Bureau's energy supply and delivery agencies, industry associations, consultants and other external entities; maintains liaison with other agencies and utilities.
11. Prepares and presents various studies and reports to the Public Utilities Board and other agencies and committees.
12. Assumes managerial and/or expanded administrative duties as required.
13. Supervises, trains and evaluates assigned employees.

EMPLOYMENT STANDARDS

Education/Experience

Any combination equivalent to education and experience likely to provide the required knowledge and abilities. A typical way to obtain the knowledge and abilities would be:

Education: Graduation from an accredited four year college or university with major course work in engineering, including or supplemented by course work in physical science and economics.

Experience: Six years of progressively responsible experience in energy resource planning.

Knowledge:

Knowledge of electrical theory and power generation; principles and practices of the utility industry; utility engineering, operations and production; principles and practices of energy resource selection, cost analysis and rate design; load forecasting; economics; applicable Federal, State and local laws, regulations and codes; various computer applications software including programming principles.

Ability

Ability to effectively administer power system and energy resource planning development and operation activities including load forecasting, resource selection and rate design; analyze technical and financial data; make economic evaluations and comparisons; draw valid conclusions and project consequences of decisions and recommendations; set priorities, meet deadlines and make sound decisions; establish and maintain accurate records; maintain level of knowledge required for satisfactory job performance; communicate effectively; establish and maintain effective working relationships with employees and the general public; and supervise, train and evaluate assigned staff.

Other Requirements

Possession of a valid California Driver's License and satisfactory driving record as a Condition of initial and continued employment.