

POWER PLANT ENGINEER I/II

SALARY: Power Plant Engineer I: \$7,514 to \$10,574 monthly (26 pay periods annually)
Power Plant Engineer II: \$8,266 to \$11,631 monthly (26 pay periods annually)

FINAL FILING DATE: Open Until Filled. **Frist cut-off is October 9, 2018.**

Following the first cut-off date, resumes/applications will be screened according to the qualifications outlined below. The most qualified candidates will be invited to interviews.

IT IS MANDATORY THAT YOU COMPLETE THE SUPPLEMENTAL QUESTIONNAIRE. YOUR APPLICATION WILL BE REJECTED IF YOU DO NOT PROVIDE ALL NECESSARY INFORMATION.

THE POSITION

The Human Resources Department is accepting applications for the regular and full-time position of Power Plant Engineer I in the Electric Department. The normal work schedule is Monday through Friday, 7:00 am –4:00 pm; a flex schedule may be available.

The City of Roseville promotes a no smoking atmosphere.

DEFINITION

To perform professional level engineering activities related to the long-term maintenance and operation of the City of Roseville's generation assets.

DISTINGUISHING CHARACTERISTICS

Power Plant Engineer I: This is the entry level class in the Power Plant Engineer series. This class is distinguished from the journey level by the performance of the more routine tasks and duties assigned to positions within this series. Employees at this level are not expected to perform with the same independence of direction and judgment on matters allocated to the journey level. Since this class is typically used as a training class, employees may have only limited or no directly related work experience. Employees work under general supervision while learning job tasks.

Power Plant Engineer II: This is the journey level class within the Power Plant Engineer series and is distinguished from the Power Engineer I level by the assignment of the full range of duties. Employees at this level receive only occasional instruction or assistance as new, unusual or unique situations arise and are fully aware of the operating procedures and policies within the work unit. Positions in this class are flexibly staffed and are normally filled by advancement from the Power Plant Engineer I level.

This class is distinguished from the Senior Power Plant Engineer in that latter performs the most difficult and responsible types of duties assigned to classes within this series including assigned responsibility for overseeing the development and implementation of a comprehensive maintenance plan for the power generation facilities and exercising direct supervision over professional engineering staff.

SUPERVISION RECEIVED AND EXERCISED

Power Plant Engineer I:

- Receives general supervision from the Senior Power Plant Engineer.

- May exercise technical and functional supervision over technical staff.

Power Plant Engineer II:

- Receives direction from the Senior Power Plant Engineer.
- May exercise technical and functional supervision over lower level professional and technical staff.

EXAMPLES OF ESSENTIAL DUTIES - Duties may include, but are not limited to, the following:

- Perform a variety of engineering tasks related to the operations and maintenance of power generation equipment.
- Assist with the implementation of long-term maintenance schedules; review the work of outside contractors and consultants in the repair and maintenance of the power plant.
- Maintain and operate plant specific optimization modeling program to analyze the output and efficiency of the plant; model specific systems and recommend design or procedural changes to improve the efficiency of the plant.
- Review operating, startup and shutdown procedures and data and identify areas in need of modification or improvement.
- Develop and maintain drawing configurations, technical documents, regulatory, and plant event library.
- Prepare requests for bids and proposals; participate in the review of bids and proposals; prepare equipment specifications.
- Build and maintain positive working relationships with co-workers, other City employees and the public using principles of good customer service.
- Perform related duties as assigned.

MINIMUM QUALIFICATIONS

Power Plant Engineer I:

Knowledge of:

- Basic chemistry, thermodynamics, mechanical principles, and electrical principles.
- Methods, materials and techniques used in the maintenance and operation of a power generation plant.
- Principles and practices of safety management.
- Modern office procedures, methods and computer equipment including word processing, database and spreadsheet applications.

Ability to:

- Perform professional level engineering work in support of power generation plant operations and maintenance.
- On a continuous basis, know and understand all aspects of the job; intermittently analyze work papers, reports and special projects; identify and interpret technical and numerical information; observe and problem solve operational and technical policy and procedures.
- On a continuous basis, sit at desk for long periods of time; intermittently bend, squat, climb, kneel or twist while performing field work; intermittently twist to reach equipment surrounding desk; perform simple grasping and fine manipulation; use telephone, and write or use a keyboard to communicate through written means; and lift or carry weight of 10 pounds or less.
- Learn to prepare engineering plans and specifications and perform complex computations related to the operation and maintenance of power generation facilities.
- Learn to prepare accurate cost estimates and make recommendations.
- Learn City policies and procedures and department standards related to the design and construction of electric utility facilities.
- Learn pertinent local, State, and Federal codes, regulations, and laws.
- Learn to analyze and prepare technical reports.
- Communicate clearly and concisely, both orally and in writing.
- Establish and maintain effective working relationships with those contacted in the course of work.

Experience and Training

Experience:

No professional experience is required; one year of technical engineering experience is desirable.

Training:

A Bachelor's degree from an accredited college or university in engineering or a related field by date of appointment.

License or Certificate

Possession of a valid California driver's license by date of appointment.

Power Plant Engineer II:

In addition to the qualifications for the Power Plant Engineer I:

Knowledge of:

- Chemistry, thermodynamics, mechanical principles, and electrical principles as they relate to the operation and maintenance of a state-of-the-art power generation plant.
- Project management, including cost estimating and budget monitoring and control.
- Methods for developing and implementing long-term maintenance programs.

Ability to:

- Independently perform professional engineering work in support of power generation plan operations and maintenance.

Experience and Training

Experience:

Two years of responsible experience performing duties similar to that of a Power Plant Engineer I with the City of Roseville.

Training:

A Bachelor's degree from an accredited college or university in engineering or a related field.

License or Certificate

- Possession of a valid California driver's license by date of appointment.
- Possession of an Engineer in Training (EIT) certificate by date of appointment. California certification is desirable but not required.

SUPPLEMENTAL QUESTIONNAIRE

1. Your responses to questions 2-5, the applicant's education, training and experience, will be scored using a pre-determined formula. Your responses to these questions must be consistent with your employment application information. This experience must also be described in the "Work Experience" section of this application. Responses to the supplemental questionnaire that are inconsistent from your "Work Experience" section in the application will not be scored. I understand and agree with the above instructions.
 Yes
 No
2. Was any of the work experience listed on your application an unpaid internship, or volunteer work? If so, please list below which ones.

3. When did you receive your Bachelor's Degree in Engineering or a related field? If you do not currently have a Bachelor's degree in Engineering or a related field what is your plan and the expected time frame for completing this requirement?
4. How many years of technical engineering experience do you have?
 - Less than 1 year
 - 1+ Years
5. Do you currently possess an Engineer in Training (EIT) certificate? If yes, please attach a copy to your application in the space provided.
 - Yes
 - No
6. You are tasked with improving a Gas Turbine Combined Cycle Power Plant's (CCPP) efficiency. What equipment or systems will you focus on and why?
7. As part of developing capital improvement projects you are required to find project funding. Describe the process you would use to justify the project's expense.
8. Describe your experience with water chemistry and treatment processes associated with thermal power plants.
9. Please explain the process you use to verify your work is accurate.
10. Please discuss your ideal project team including structure, communication, planning, and how tasks are completed.

SELECTION PROCESS

All candidates meeting the minimum qualifications will have their application scored in a Formula Rate Examination. The applicant's experience and education will be evaluated using a pre-determined formula. Scores from this evaluation will determine applicant ranking and placement on the Employment List. Supplemental questions will be utilized by the department hiring authority to make interview and selection determinations. Final appointment is contingent upon a check of past employment references, passing a City-paid fingerprint check and depending on position applied for a pre-employment medical exam and a drug and alcohol screening test.

THE CITY OF ROSEVILLE IS AN EQUAL OPPORTUNITY EMPLOYER. IF YOU REQUIRE AN ACCOMMODATION DUE TO A DISABILITY, PLEASE CONTACT THE HUMAN RESOURCES DEPARTMENT AT LEAST 5 WORKING DAYS BEFORE A SCHEDULED INTERVIEW/EXAMINATION PROCESS. MEDICAL DISABILITY VERIFICATION MAY BE REQUIRED PRIOR TO ACCOMMODATION.