

CUF COMBINED HEAT AND POWER PLANT MANAGER

Orange County Public Works

(Orange County, CA)



THE COMMUNITY

Known around the world as “The OC,” Orange County, California offers the ultimate Southern California lifestyle... casual sophistication, pristine beaches, legendary theme parks and endless options for fun in the sun or cultural exploration. With sun-soaked days and star-filled nights, The OC represents the real California dream.

Orange County’s 3 million residents enjoy a full range of amenities including award-winning schools, state-of-the-art hospitals, world class shopping and entertainment centers, pacesetting colleges and universities, fabulous food from around the world, and abundant opportunities for outdoor recreation.

OC PUBLIC WORKS

OC Public Works provides services on a regional basis to unincorporated areas, to cities, and to other County agencies and departments. The primary mission of the department is to protect and enrich the community through efficient delivery and maintenance of public works infrastructure, planning, and development services. OC Public Works core values are integrity, accountability, service and trust.

OC Public Works is a unique County department comprised of ten service areas: OC Development Services; OC Fleet Services; OC Administrative Services; OC Facilities Design & Construction; OC Facilities Maintenance & Central Utilities Facility; OC Infrastructure Programs; OC Construction; OC Operations & Maintenance; OC Survey; and OC Environmental Resources. The Department currently has a workforce in excess of 950 positions.

OC Public Works partners with a diverse array of local, state, and federal agencies; special districts and authorities; and the private development community including, construction, planning, and design firms, to accomplish many of the County’s infrastructure projects.

Additional information can be found at <https://www.ocgov.com> and <http://www.ocpublicworks.com>.

OC FACILITIES OPERATIONS/CENTRAL UNIT FACILITY

OC Facilities Operations provides support services to County agencies/department by operating and maintaining facilities and maintaining County-owned facilities; operates and manages the County Central Utility Facility.

The Central Utility Facility (CUF); Combined Heat and Power Plant is located at 525 N. Flower Street in Santa Ana, California. The CUF provides electrical power, steam and cooling to County buildings and steam and cooling to other City, State and Federal governmental buildings within the Civic Center Campus, on a 24 hours/day, 365 days/year basis. The plant is approximately 25,500 square feet and has been in operation since 1968, with the cogeneration operation added in 2009, and most major steam and chilled water equipment replaced in 2016-2018.

The CUF equipment, includes two 5.20 MWe natural gas powered combustion turbine electrical generators from Solar Turbines, Inc.; two heat recovery steam generators designed to produce 128,000 lbs per hour of 265 PSIG saturated steam from Rentech; a 10MVA/15 kV-5kV electrical substation and 5 kV generator power and control synchronizing switchgear from Eaton Electrical Corporation; Evaptech 16,0000 ton cooling tower; York Centrifugal Chillers between 1350 and 2500 tons of cooling, one with motor drive and the others steam driven; Trane and York absorption chillers, steam driven at approximately 1300 tons each; and a Cleaver Brooks fire tube boiler, 2500 lbs per hour for backup steam operations.

The CUF provides power to County clients on an island-able microgrid. Redundant power capability is maintained through access to the Southern California Edison electrical grid.

THE POSITION

The Central Utility Facility (CUF) Combined Heat and Power Plant Manager is responsible for all operational and administrative aspects of the CUF. Day-to-day leadership is critical to the successful operation of the CUF, which provides essential electrical and thermal utility services on a continuous 24/7/365 basis to various County, City, State, and Federal Buildings in the Civic Center area, including the Central Justice Center, Hall of Administration, and County Jails. The manager is also responsible for

CUF COMBINED HEAT AND POWER PLANT MANAGER

Orange County Public Works

working with the Utility / Energy Unit Manager on utility billing, regulatory reporting, budget, long-term strategic planning and to oversee repair and improvement projects related to the CUF.

The incumbent will be required to interface with stakeholders who include CUF customer buildings, other County departments, senior County officials, members of various regulatory compliance agencies such as the California Air Resources Board, South Coast Air Quality Management District and the Regional Water Quality Control Board to ensure the CUF meets current and future environmental regulatory compliance requirements.

THE IDEAL CANDIDATE

The ideal candidate will be a technical expert who motivates and drives the positive engagement of CUF staff. This person will set a positive example for the members of his/her team and will be actively engaged in teaching and training CUF staff to perform at a high level with a strong sense of cooperation and professionalism.

MINIMUM QUALIFICATIONS:

The complete classification description for Administrative Manager II can be found at <http://www.ocgov.com/civicax/filebank/blobdload.aspx?BlobID=17600>. In addition to the minimum qualifications, the ideal candidate will possess 7 years experience and the following competencies:

TECHNICAL EXPERTISE:

- Public works knowledge specific to a central utility plant operations and management as evidenced by prior experience. Including thorough knowledge of: Central Utility plant operations and management (steam and chilled water).
- Principles and operations of a microgrid - gas turbine/electrical cogeneration plant. Principles of high-pressure steam boilers, large tonnage centrifugal refrigeration units, absorption chillers, closed water systems, large water cooling towers, electrical distribution and large steam turbines.
- Principles of electrical, mechanical, plumbing systems. Principles of Supervisory Data Acquisition Systems, metering and associated equipment.
- Regulatory compliance related to CUF and power generation and sales.
- Principles of Governmental purchasing. Principles of central plant fiscal management, budgetary preparation and control.
- Principles and methods of management including scheduling, training, evaluating and disciplining a large staff of subordinates including supervisors, operators and maintenance personnel. Rules and regulations required for plant operations (e.g.; hazardous materials, wastewater treatment, life safety systems, etc.). Contract administration.
- Mechanical and/or Electrical Engineering degree or equivalent experience in operating field is desired.
- Possess and maintain a valid California Driver's license, Class C or higher by date of appointment.



The ideal candidate is also desired to have or be able to obtain one or more of the following:

- Steam Operator's License for high-pressure steam boilers with a Turbine Endorsement
- HVAC Certification
- Certified Measurement and Verification Professional
- Certified Energy Manager

PHYSICAL, MENTAL, AND ENVIRONMENTAL CONDITIONS / REQUIREMENTS:

Possess vision sufficient to read standard text and a computer monitor and to drive a vehicle; speak and hear well enough to communicate clearly and understandably in person to individuals and groups and over the telephone; possess body mobility to stand, sit, walk, stoop and bend routinely to perform daily tasks and to access a standard office environment; possess manual dexterity sufficient to use hands, arms and shoulders repetitively to operate a keyboard, utilize office equipment and to write and drive; use a County approved means of transportation. Will be required to possess one or more of the following: the ability to climb, bend, stoop, twist and reach overhead; to review/evaluate work; manual dexterity and bodily movement sufficient to operate various types of equipment.

Possess the ability to independently reason logically to analyze data, reach conclusions and make recommendations; possess the ability to remain calm and appropriately focused in rapidly changing and difficult situations involving conflict, complex issues, controversy and diverse stakeholder groups and interests; possess the ability to deal calmly and effectively with emotional interactions. May be required to possess the ability to handle emotional client situations effectively.

Function effectively in a standard office and in an operating central plant environment. Required to function in one or more of the following: uneven terrain, construction sites, and/or inclement weather, as needed.

COMPENSATION

The salary range for this position is \$77,729.60 - \$138,132.80 per year. Placement within the range will be dependent on qualifications. OC Public Works also provides a generous benefits package to its employees which includes medical and dental benefits; retirement benefits; voluntary life and AD&D insurance; disability coverage; defined contribution plan options; and retiree benefits.

Additional information will be provided upon request.

HOW TO APPLY

Please **apply on-line** at www.alliancerc.com **on or before July 20, 2018**. For questions and inquiries, please contact:

Cindy Krebs or Sherrill Uyeda

ALLIANCE RESOURCE CONSULTING LLC

400 Oceangate, Suite 480
Long Beach, CA 90802

Telephone: (562) 901-0769

Email: ckrebs@alliancerc.com or suyeda@alliancerc.com



<http://twitter.com/Alliancerc>



Alliance Resource Consulting LLC