

CITY OF BURBANK

SENIOR INSTRUMENT CONTROLS TECHNICIAN

DEFINITION

Under direction, to carry out complex instrument and system maintenance and testing in an electric generating plant; to lead and direct a crew; and to perform other related duties as required.

ESSENTIAL FUNCTIONS

Leads and coordinates the activities of a crew of Instrument Controls Technicians; programs, services, calibrates, troubleshoots, and repairs a variety of electronic, computerized, and pneumatic instruments, equipment, and systems; performs a variety of tests, including but not limited to, physical and chemical analysis and treatment; observes instruments; collects data; prepares and maintains a variety of written records both manually and electronically; cleans up and disposes of acids and other hazardous materials under the control of the instrument shop; operates a variety of electronic and computerized metering instruments and equipment; utilizes a variety of hand tools; operates motor vehicles; operates a computer with related software; assists in designing control and operating systems for boilers and related power plant equipment; performs system control and application software programming for controllers and computers; performs programming and hardware interface to new computer control installations; provides technical support for the installation and design of control system for new projects; prepares work schedules, cost estimates, reports, and related records; assists in the development and execution of efficiency and performance tests on machinery and equipment; assists in developing and implementing training programs; assists in administering maintenance management programs; evaluates employee performance.

MINIMUM QUALIFICATIONS

Employment Standards:

- Knowledge of - instrumentation; principles of electronics, physics, chemistry and mathematics; various engineering units; characteristics of electronic testing equipment; computer operation; current Programmable Logic Controller (PLC) and Human Machine Interface (HMI) platforms (e.g. Windows, Emerson Delta V software, Rockwell Automation Control Logix systems, etc.); applicable South Coast Air Quality Management District (SCAQMD), Environmental Protection Agency (EPA), and California Air Resources Board (CARB) rules, regulations, and enforcement procedures; occupational hazards and safety procedures; first aid.
- Skill in - effectively implementing the aforementioned knowledge standards; interacting and communicating tactfully and effectively with a culturally diverse population; discerning potentially dangerous situations; making independent judgements and decisions based upon standard policy or procedures.
- Ability to - read, write, and communicate in English at an appropriate level; learn, comprehend, and apply Department and City policies, rules, and regulations; follow instructions and directions; write clear and accurate reports; operate a computer terminal and a variety of related software; utilize hand tools and specialized electronic instruments; observe instruments; work with fiber-optic networks and Supervisory Control and Data Acquisition (SCADA) systems; implement control strategies and modify logic tasks both in Distributive Control Systems (DCS) and PLC systems; proficient with software based DCS, specifically Emerson Delta V, Foundation Fieldbus, Citect, and Cimplicity; safely collect and dispose of hazardous materials; safely operate motor vehicles; read schematic diagrams; cope with situations calmly and tactfully; work in and around a power generating plant, including work in confined spaces; perform essential functions; assign and direct the work of a crew efficiently; direct, train, and evaluate the work of subordinates; establish and maintain effective working relationships with supervisors, fellow employees, contractors, and the public.

Education/Training: Two years of college course work in any of the following concentrations: chemistry, physics, electronics, instrumentation, and/or engineering; and three years of recent experience in high pressure steam boilers, power generating plant operations (minimum 400 lbs. boiler) OR three years of recent experience in control operation or instrument repair and calibration in a process industry or refinery. NOTE: Additional experience may be substituted for the education requirement on a year for year basis.

Special Conditions & Requirements: Employees in this classification will be required to comply with the American National Standards Institute's requirements of Practices for Respiratory Protection. COLOR VISION: Keen Color Vision.

License & Certificates: A valid California Class "C" driver's license or equivalent at time of appointment and a valid Cardiopulmonary Resuscitation (CPR) and Basic First Aid Certificates from authorized providers, as determined by the Management Services Department within six months of appointment.

SUPPLEMENTAL INFORMATION

None.