MECHANICAL/ELECTRICAL SYSTEMS TECHNICIAN

DEFINITION

Under supervision, operates and maintains high and low pressure steam heating systems, air conditioning systems, refrigerating systems, automated environmental control systems and other related auxiliary training equipment in the Mechanical-Electrical Technology (MET) facilities.

TYPICAL DUTIES

Perform technical work on institutional machinery systems and equipment located in and around the Technology building including installation, operation and maintenance tasks; operate boilers and maintain proper steam pressure and water levels; repair and condition boilers for annual inspection; operate air conditioning equipment; operate and maintain an ammonia refrigeration system; make repairs to air supply and temperature control systems; help overhaul and repair air compressors, refrigeration compressors, fans, condensers, pumps and motors; clean, oil, adjust and maintain equipment in a safe working condition; utilize automated control devices to monitor, operate and control machinery systems; perform related duties as required.

QUALIFICATIONS

EXPERIENCE
Two years of experience in the operation and repair of heating, ventilating, air conditioning and refrigeration (HVACR) systems.

EDUCATION
Completion of a two-year college level program in mechanical-electrical technology covering HVACR subjects or comparable experience.

SPECIAL REQUIREMENTS
Possess and maintain a valid California Driver’s License in compliance with Los Rios Board Regulation R-8343; employment is contingent upon meeting the requirements of Los Rios Board Regulation R-8343. This position may require operating a District or personal vehicle in order to complete assigned work within the scope of the position duties. Any offer of employment is contingent upon the successful completion of a medical evaluation.

KNOWLEDGE OF
Operation, use and function of automated devices used in management systems, to include keyboard, CRT and printer; fire security alarm data and functions; methods, practices, materials and equipment used in the operation and repair of boilers, condensers, pumps, fans, and compressors; safe work practices and procedures; applicable state and local codes, ordinance and regulations; names, care and use of hand, heat and power tools used to repair, operate, and maintain mechanical-electrical equipment.

ABILITY TO (ESSENTIAL FUNCTIONS)
Identify and work safely with materials, equipment and tools common to mechanical-electrical fields; understand and follow oral and written instructions; speak and write effectively; learn about new systems and processes; keep abreast of new and emerging technological developments related to the mechanical-electrical fields.
Physical And Environmental Factors: Ability to move about freely and safely at construction sites, climb ladders, crawl in attics, maneuver through tight and cramped spaces (trenches, crawl spaces, electrical and mechanical vaults, etc.). Drive to various district locations; lift up to 50 pounds unassisted; exposure to chemicals, solvents, cleaning and de-greasing solutions, refrigerants, oils, electrical panels, wiring, motors, and controls; perform hard labor in extreme temperature conditions, work in outside environment all times of the year, work around loud machinery in boiler and mechanical rooms, exposure to dust and allergens; lift or descend ladders with heavy objects with and without assistance (objects are sometimes elevated from floor level to above the shoulders); bend, pull, push, kneel, carry, and lift in performance of daily duties.