

OBSERVATORY MECHANIC, 6220

Summary of Duties : Constructs, installs, modifies, and repairs mechanical or electronic exhibits, planetarium instruments, and telescopes at the Griffith Park Observatory; and does related work.

Distinguishing Features : An Observatory Mechanic may design individual parts of complex instruments and frequently executes their construction. An employee of this class uses independent judgment in following each assignment through to completion and is responsible for the shop work involved. General supervision is received from an Observatory Technician, and work is evaluated by the effectiveness of the completed product.

Examples of Duties: Designs, drafts, constructs, modifies, repairs, and installs scientific demonstration exhibits and parts for planetarium optical instruments, telescopes, a coelostat, and other observatory instruments and equipment; works with a variety of metals, plastics, synthetics, wood, and glass; follows complex wiring diagrams and wires scientific exhibits for electric and electronic lighting and control; constructs display and control cabinets; uses a variety of shop machines and hand tools.

Inspects exhibits for proper operation; makes emergency repairs and adjustments; performs routine servicing of movable telescope domes and the planetarium console and projectors; requests needed supplies; and may occasionally be assigned to other duties for training purposes or to meet technological changes or emergencies.

Qualifications : A working knowledge of the standard practices, processes, terminology, and tools of the machinist trade; a working knowledge of machine, wood, and sheet metal shop methods, materials, and equipment; a working knowledge of the principles and practices of safety in shop work; a working knowledge of the fundamentals of electricity and electronics as related to display and demonstration exhibits;

The ability to operate power and hand tools commonly used in these trades;

The ability to work from plans, blueprints, wiring diagrams, models, sketches, the ability to interpret and follow both written and oral instructions.

Attainment of journey-level rank as a machinist, or six years experience as a machine shop helper is required for Observatory Mechanic.

Experience constructing, installing and repairing electronic

instruments or equipment is desired.

License: A valid California driver's license may be required prior to appointment.

Physical Requirements: Strength to perform average lifting up to 35 pounds and occasionally over 70 pounds; body agility and equilibrium involved in activities such as climbing and balancing in high places; back and leg coordination involved in activities such as bending and crawling to reach difficult locations; arm, hand, and finger dexterity with both hands as required to manipulate machine tools and controls and to handle equipment components and instruments; good eyesight; and good speaking and hearing ability.

Persons with medical limitations may, with reasonable accommodations, be capable of performing the duties of some of the positions in this class. Such determination must be made on an individual basis in light of the person's limitations, the requirements of the position, and the appointing authority's ability to effect reasonable accommodations to the person's limitations.

As provided in Civil Service Commission Rule 2.5 and Section 4.55 of the Administrative Code, this specification is descriptive, explanatory and not restrictive. It is not intended to declare what all of the duties and responsibilities of any position shall be.