

## CLASS SPECIFICATION

### SAN DIEGO CITY CIVIL SERVICE COMMISSION

### ASSISTANT ENGINEER – MECHANICAL - 1167

#### **DEFINITION:**

Under general supervision, to perform professional mechanical engineering work; to design and inspect mechanical and motive equipment; to check moderately complex building and engineering plans for mechanical design; and to perform related work.

#### \* **EXAMPLES OF DUTIES:**

- Performs professional level design, research, and inspection of mechanical and motive equipment used in City facilities, vehicles, or activities;
- Performs controlled experiments on efficiency and expected life of mechanical, motive, and related equipment and materials;
- Recommends the replacement and acquisition of equipment;
- Prepares drawings and specifications for mechanical and motive equipment;
- Prepares cost estimates on assigned projects;
- Provides information to engineers, architects, and contractors;
- Makes field inspections to assure compliance with plans and specifications;
- Checks building plans for compliance with mechanical, plumbing, heating ventilation air-conditioning (HVAC), water, gas, sanitary piping, energy conservation, noise control, and electrical codes and standards;
- Checks engineering plans for conformance to a variety of Federal, State, and local mechanical codes as applied to buildings, vertical lift devices, ventilation and heating systems, motive equipment, thermal insulation, water, gas, and sanitary piping;
- Calculates, reviews, and verifies mechanical adequacy;
- Prepares specifications;
- Reviews engineering-related legislation for impact on City operations;
- Consults with architects and contractors regarding required plan modifications;
- May be assigned to assist field inspectors;
- Prepares reports and written recommendations.

#### **MINIMUM QUALIFICATIONS:**

Please note: the minimum qualifications stated below are a guide for determining the education, training, experience, special skills, and/or license which may be required for employment in the class. These are re-evaluated each time the position is opened for recruitment. Please refer to the most recent Job Description for updated minimum qualifications: <https://www.governmentjobs.com/careers/sandiego/classspecs>.

College graduation with a Bachelor's degree in Mechanical Engineering or a closely related engineering field; **OR** certification as an Engineer-in-Training; **OR** registration as a professional Mechanical Engineer with a State licensing board, **AND** two years of full-time

- \* **EXAMPLES OF DUTIES** performed by employees in this class. The list may not include all required duties, nor are all listed tasks necessarily performed by everyone in this class.

professional-level mechanical engineering experience. Qualifying professional-level experience must include: checking building plans for compliance with mechanical and plumbing codes and standards; reviewing and verifying mechanical adequacy; and providing information to engineers, architects, and contractors regarding plan modification, building regulations, and mechanical/plumbing design issues. Possession of valid California Class C Driver's License.