

**CLASS SPECIFICATION**

**SAN DIEGO CITY CIVIL SERVICE COMMISSION**

**ASSOCIATE ENGINEER – CONTROL SYSTEMS - 1209**

**DEFINITION:**

Under direction, to develop, operate, and evaluate control systems; to provide engineering design and support for complex industrial automated control systems for water and wastewater systems; and to perform related work.

**\* EXAMPLES OF DUTIES:**

- Ensures designs for distributed control system equipment at various facility sites is appropriate, effective, efficient, and can support ongoing operations;
- Ensures hardware and software repair, replacements, and upgrades are correct;
- Analyzes, writes, and reviews control systems programs to increase operating efficiency or to adapt a program to a new requirement;
- Directs contractor activities for the installation and testing of control systems at plant facilities;
- Designs electrical and hydraulic control systems for plant equipment;
- Reviews various plans and diagrams submitted by contractors and City staff for control systems design;
- Resolves issues with construction of control systems through contractor and management meetings;
- Serves as the technical expert and authority over control systems engineering and engineering design, installation, and start-up of water and wastewater systems;
- Designs a standardized network system to manage, operate, and maintain the programming of various water and wastewater systems;
- Develops logic system diagrams;
- Supervises various consultants, vendors, and contractors;
- Prepares guidelines to ensure uniformity of control systems;
- Identifies operational requirements and parameters at facilities to ensure necessary interfaces and requirements are met.

**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 Electrical Engineering, Control Engineering, Computer Engineering, or Mechanical Engineering; **AND** three years of full-time professional industrial engineering project management experience.

- \* **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.