

CLASS SPECIFICATION
SAN DIEGO CITY CIVIL SERVICE COMMISSION
ASSISTANT ENGINEER – CORROSION - 1154

DEFINITION:

Under general supervision, to perform journey-level corrosion control engineering work; to lead the work of outside corrosion control consultants; and to perform related work.

DISTINGUISHING CHARACTERISTICS:

This is the journey-level class in the corrosion engineering-series. Incumbents of this class are expected to perform their duties with only occasional instructions or assistance as new or unusual situations arise, and are fully aware of the operating procedures and policies of the department.

* **EXAMPLES OF DUTIES:**

- Prepares engineering designs and specifications for corrosion control systems;
- Develops larger designs for corrosion control approaches;
- Creates and implements test protocols for existing corrosion control devices and coatings;
- Prepares technical engineering studies and bid documents;
- Assists in data analysis;
- Writes routine reports and specifications;
- Performs field investigations and inspections;
- Assists in performing in-depth corrosion studies and evaluations to determine the extent of corrosion and necessary mitigation;
- Prepares engineering calculations of the effects of various corrosion control processes;
- Inspects corrosion control coatings at off-site materials production plants for acceptance by the City;
- Assists in planning, developing, maintaining, and implementing a Citywide corrosion mitigation program for the City's water and wastewater facilities;
- Supervises and reviews the work of subordinate personnel;
- Performs related duties.

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 Announcement for updated minimum qualifications.

EXPERIENCE:

Bachelor's Degree in Civil, Electrical Engineering, or a closely related engineering field; **OR** Engineer-in-Training (EIT) Certificate issued from a state licensing board; **OR** registration as a Professional Civil or Electrical Engineer with a state licensing board; **AND** Two years of full-time professional corrosion engineering experience which **MUST** include design and development of specifications for cathodic protection systems, and development of specifications for protective coatings. Possession of a valid California Class C Driver License.

- * **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.