

## **CLASS SPECIFICATION**

### **SAN DIEGO CITY CIVIL SERVICE COMMISSION**

### **STRUCTURAL ENGINEERING ASSOCIATE – 1231**

#### **DEFINITION:**

Under direction, to perform difficult checking of building plans of complex structures for compliance with building regulations and for structural design adequacies; and to perform related work.

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

- Provides technical assistance on building construction problems;
- Reviews building designs or building remodeling designs involving complex statically indeterminate loading, complex or unusual foundations, unusual building materials and structural members, and unusual construction methods;
- Reviews building plans for compliance with building code regulations, ordinances, and the Municipal Code for compliance with fire resistance, life safety, disabled access, and for structural design provisions;
- Prepares data for structural items in specifications;
- Studies reports of soil analyses to aid in proper checking of foundation designs;
- Checks effect of seismic forces and wind loading on structures;
- Consults with architects, engineers, contractors, and private builders regarding plan modifications, building regulations, and structural problems;
- Coordinates and consults with other departments on structural engineering matters;
- Makes field inspections of building sites when unusual structural problems exist;
- Performs structural damage assessments and feasibility studies related to the effects of earthquakes on City facilities;
- Performs research into unusual structural engineering problems;
- Writes complex and detailed reports.

#### **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>.

Bachelor's Degree in Structural, Civil, or Architectural Engineering, **OR** certification as an Engineer-in-Training (EIT) issued from a state licensing board, **OR** registration as a Professional Structural or Civil Engineer with the State of California; **AND** three years of full-time professional structural engineering experience in structural design or public agency structural plan checking, which must include one year of full-time professional journey-level experience equivalent to the City of San Diego's classification of Structural Engineering

- \* **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.

Assistant. Possession of a valid International Code Council (ICC) Certificate as a Building Plans Examiner is required within two years of date of hire.