



## **ELECTRICAL ENGINEER (0850 Series)**

### **Responsibilities**

- Prepare electrical design drawings, calculations, and specifications to accompany design models generated on electrical engineering design software (e.g., AutoCAD).
- Review construction project parameters (e.g., integration, scope, time, cost, quality, communication, procurement, risk management) to recommend changes that will improve the overall project results.
- Investigate problems (e.g., change in design and interface) with existing structures to ensure construction is compatible with the organizational plan.
- Document project requirements (e.g., costs estimates, performance work statements, specifications) to support organizational goals.

### **Qualifications**

In addition to the Basic Education Requirements for this position, your resume must also demonstrate at least one year of specialized experience at or equivalent to the announced grade level or pay band in the Federal service or equivalent experience in the private or public sector performing the following duties:

- 1) Producing shore facilities electrical engineering design packages, including design drawings, plans, specifications and design-build requests for proposal;
- 2) Reviewing shore facilities electrical engineering design submittals to provide subject matter expert acceptance recommendations to officials;
- 3) Providing shore facilities electrical engineering design consultation services to officials during construction.

**NOTE: This information must be supported in your resume to be considered for the position.**

This position has a Selective Placement Factor that will be used to screen out ineligible candidates. This position requires current registration as a Professional Engineer (PE) by any State, the District of Columbia, Guam or Puerto Rico. You must submit a copy of your registration with your application.

### **Basic Requirements**

#### **Education:**

- (1) Degree: Engineering. To be acceptable, the program must: lead to a bachelor's degree in a school of engineering with at least one program accredited by ABET; or
- (2) include differential and integral calculus and courses (more advanced than first-year physics and chemistry) in five of the following seven areas of engineering science or physics: (a) statics, dynamics; (b) strength of materials (stress-strain relationships); (c) fluid mechanics, hydraulics; (d) thermodynamics; (e) electrical fields and circuits; (f) nature and properties of materials (relating particle and aggregate structure to properties); and (g) any other comparable area of fundamental engineering science or physics, such as optics, heat transfer, soil mechanics, or electronics.

**OR**

**B. Combination of education and experience** -- college-level education, training, and/or technical experience that furnished



- (1) a thorough knowledge of the physical and mathematical sciences underlying engineering, and
- (2) a good understanding, both theoretical and practical, of the engineering sciences and techniques and their applications to one of the branches of engineering. The adequacy of such background must be demonstrated by one of the following:
  1. Professional registration or licensure -- Current registration as an Engineer Intern (EI), Engineer in Training (EIT)<sup>1</sup>, or licensure as a Professional Engineer (PE) by any State, the District of Columbia, Guam, or Puerto Rico. Absent other means of qualifying under this standard, those applicants who achieved such registration by means other than written test (e.g., State grandfather or eminence provisions) are eligible only for positions that are within or closely related to the specialty field of their registration. For example, an applicant who attains registration through a State Board's eminence provision as a manufacturing engineer typically would be rated eligible only for manufacturing engineering positions.
  2. Written Test -- Evidence of having successfully passed the Fundamentals of Engineering (FE)<sup>2</sup> examination or any other written test required for professional

Additional qualification information can be found from the following Office of Personnel Management website: <https://www.opm.gov/policy-data-oversight/classification-qualifications/general-schedule-qualification-standards/0800/electrical-engineering-series-0850/>

### **Additional Information**

You will be evaluated for this job based on how well you meet the qualifications above. Your resume is the key means we have for evaluating your skills, knowledge, and abilities, as they relate to this position. Therefore, we encourage you to be clear and specific when tailoring your resume to describe your experience and accomplishments. You will be rated based on the information provided in your resume along with your supporting documentation to determine your ability to demonstrate the following job elements.

**Clearance:** Secret

### **Conditions of Employment**

- Must be a US Citizen.
- Must be determined suitable for federal employment.
- You will be required to obtain and maintain an interim and/or final security clearance prior to entrance on duty. Failure to obtain and maintain the required level of clearance may result in the withdrawal of a job offer or removal.