



## **Mechanical Engineer (0830 Series)**

### **Responsibilities**

- Manage design and construction projects to promptly identify and resolve issues while ensuring the structure, systems, functions and performance adhere to pre-established standards and requirements.
- Perform technical reviews of mechanical engineering designs, calculations, analyses, drawings, or specifications to ensure compliance with project objectives or standards.
- Recommend methods to resolve facilities engineering design problems.
- Communicate with other organizations to resolve inquiries or concerns on completion of facility projects.

### **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. Specialized experience must demonstrate the following:

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

### **Education:**

Successful completion of a professional engineering degree. To be acceptable, the program must: (1) lead to a bachelor's degree (or higher) in a school of engineering with at least one program accredited by the Accreditation Board for Engineering and Technology (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. Such education must demonstrate the knowledge, skills, and abilities necessary to do the work of the position.

**OR**

Current registration as an Engineer Intern (EI), Engineer in Training (EIT), 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 more information about EI and EIT registration requirements, please visit the National Society of Professional Engineers website at: <http://www.nspe.org>

**OR**



Evidence of having successfully passed the Fundamentals of Engineering (FE) examination or any other written test required for professional registration by an engineering licensure board in the various States, the District of Columbia, Guam, and Puerto Rico. The FE examination is not administered by the U. S. Office of Personnel Management. For more information, please visit: <http://www.nspe.org/Licensure/HowtoGetLicensed/index.html>.

**OR**

Successful completion of at least 60 semester hours of courses in the physical, mathematical, and engineering sciences and in engineering that included the courses specified in the basic requirements under paragraph A (above). The courses must be fully acceptable toward meeting the requirements of an engineering program as described in paragraph A (above)

**OR**

Successful completion of a curriculum leading to a bachelor's degree in an appropriate scientific field, e.g., engineering technology, physics, chemistry, architecture, computer science, mathematics, hydrology, or geology, may be accepted in lieu of a bachelor's degree in engineering, provided the applicant has had at least one year of professional engineering experience acquired under professional engineering supervision and guidance. Ordinarily, there should be either an established plan of intensive training to develop professional engineering competence, or several years of prior professional engineering-type experience, e.g., in interdisciplinary positions.

Additional qualification information can be found from the following Office of Personnel Management websites:  
<https://www.opm.gov/policy-data-oversight/classification-qualifications/general-schedule-qualification-standards/#url=GS-PROF> ;  
<https://www.opm.gov/policy-data-oversight/classification-qualifications/general-schedule-qualification-standards/0800/mechanical-engineering-series-0830/>

**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.