

GS-0830-12 Mechanical Engineer, Fort Benning, Columbus GA

Serves as Mechanical Engineer in a Construction field office in charge of all phases of mechanical installations, inspection testing, and partial contract administration of all systems and construction operations. Provides expertise and serves as technical advisor on mechanical engineering problems arising during construction. Contracted items typically include heating and ventilating, air conditioning, water, sewage, sprinkler, and other mechanical systems with related electrical control circuitry found in administrative buildings, shops, storage facilities, tactical equipment shops, and other typical structures, as well as energy conservation projects. Assignments involve multistory buildings, large energy plants, state-of-the-art solar systems, hospital, and/or other large and comparably complex mechanical systems for which job is technically responsible/authoritative.

1. Reviews the mechanical portion of plans and specifications prior to start of construction to ensure design is in compliance with sound engineering practices, established criteria, and functional requirements of the facility as outlined in the master plan. Utilizing professional knowledge in mechanical engineering and related engineering fields, the incumbent participates in design and planning review conferences with designers or A-Es and construction contractors or other interested parties to discuss construction aspects and problems. Supports the source selection process. Reviews contractor mechanical design submittals and shop drawings for conformance with contractual requirements. Approves mechanical materials utilized as well as all mechanical equipment submittals. Checks and insures contractor progress by constant surveillance of installation and construction of all mechanical components involved with particular attention paid to delivery of long lead time elements.
2. Suggest changes in design and/or specifications to improve performance of the facility, to reduce cost of construction or material involved, or to enhance the project in any significant way.
3. In connection with design on later changes, conducts studies or investigations, compiling data as to existing field conditions. Conducts studies to determine solutions to unusual problems. Consults with representatives of the using service to determine their needs and/or to discuss necessary changes, modifications, etc. Prepares correspondence, cost estimates, sketches, mechanical specifications, recommended procedures, and revised construction schedules to serve as a basis for contract modifications. Conducts or participates in negotiations and prepares modifications.
4. Compiles technical data required for submittal of progress reports. Assists in assembly of data for payment estimates. Coordinates and checks preparation of all mechanical cost estimates processed through the Resident Engineer Office.
5. Exercises close surveillance over the contractor quality control activities to insure adequacy of: testing, material utilization, construction methods, safety procedures and equipment installation. Ensures compliance with contract documents, applicable mechanical codes and functional requirements of the using service.
6. Responsible for the full application of the General Safety Requirement Manual EM 385-1-1 and other District and contractual safety requirements to the work being performed under his/her supervision; on supervision of contractor activities, is responsible for inspecting work areas, making safety recommendations, and noting safety recommendations and corrective action taken on daily reports.

