

## **ENGINEERING SPECIALIST – CE/INFRASTRUCTURE**

### **Principal Objective**

Responsible for the efficient control of an Engineering Unit. Provides professional engineering discipline support to the program projects with particular emphasis on promoting and maintaining the technical adequacy, uniformity, and quality of the project designs in conformance with approved standards and codes. Provides guidance to peers

### **Organizational Relationship**

Reports directly to the Supervisor/CE and provides technical and general guidance to the Section.

### **Major Activities Performed**

1. Supports the Section Supervisor to meet the development program requirements.
2. Coordinates the Section's activities with those of other Sections within the Engineering Department.
3. Provides technical guidance of personnel within the Section.
4. Provides technical advice to other RC and SAPL Departments.
5. Represents the Section at project and inter-sectional meetings, as appropriate.
6. Prepares technical specifications and scope of work descriptions.
7. Prepares/Reviews Request for Proposal (RFP) documents with design concepts.
8. Provides technical assistance during pre-bid conferences, proposal evaluations, and post-award or other contract conferences.
9. Reviews A/E contractor design drawings, specifications, and calculations submittals and coordinates with the work of other disciplines.
10. Reviews vendor/shop drawings and construction materials submittals.
11. Performs field inspections and provides professional field support as necessary during construction phases.
12. Prepares interface layouts and conflicts solutions.
13. Prepares / Reviews man-hour estimates for design fee proposals.
14. Prepares technical correspondence, reports, and studies.

### **Experience and Qualifications**

1. A recognized university degree in Civil Engineering with 12 years' post-graduate professional experience with 5 years as Lead discipline r/team leader. Design experience of general civil works is essential.
2. Professional registration in the appropriate discipline is desirable.
3. The ability to communicate effectively in spoken and written English is essential.
4. A proven record of technical and administrative ability in design management.
5. Must be knowledgeable with the civil works standards.
6. Experience in Hydrology, hydraulic Analysis, and calculations. Proficiency in Civil 3D Design. Conversant and has working knowledge of Industry Standard software in the CE designs.
7. Five (5) years' experience in designing roads, grading and underground utility systems for infrastructure of residential, commercial and industrial development. Minimum three (3) years' experience in design of utilities for major infrastructure development.