

# CAREER OPPORTUNITIES

## **CIVIL AND STRUCTURAL**

### **PRINCIPALS (CIVIL/STRUCTURAL/ GEOTECHNICAL) – JOB ID 32803**

#### Responsibilities

- Assume the role of PIC/PM and QP/PE in projects.
- Head one of the divisions in the Company's Departments if appointed to do so.
- Assist the Head / Deputy Head / Division Head in formulating, implementing and achieving Company strategies, goals.
- Assist the Company in sourcing and securing new businesses opportunities /projects.
- Provide guidance and training and improve technical knowledge of the employees.
- Standardize technical standards and practices for the Company.
- Responsible and committed to the development, implementation, communication, participation and continual effectiveness of the SHEQ management system.
- Promote Ethics, Sustainability and Corporate Social Responsibility values.

#### Requirements

- Minimum 10 years' post-graduate experience
- Degree graduate from recognised University
- Registered with the Professional Board of Engineers
- Experience in design, design development and contract administration work
- Proven team leader with strong leadership and people skills. Able to plan, organize and deliver project deliverables and bottom line
- Able to lead multiple project teams
- Good business acumen
- Must have drive to develop the business

### **SENIOR ASSOCIATES/ASSOCIATES – JOB ID 25631 (CIVIL, GEOTECHNICAL, BRIDGES/TUNNEL/)**

#### Responsibilities

- Lead major project executions and provide technical, managerial and mentoring leadership to the Engineers and Drafters
- Liaise and to develop working relationship with the Clients

#### Requirements

- Degree in Civil and Structural Engineering or its equivalent recognized by the professional bodies of Singapore
- Minimum 12 years of working experience in major infrastructure or building projects. Professional Engineer (Civil) or Chartered Engineer status is preferred
- Experience in managing major multi-disciplinary infrastructure or building projects such as MRT stations, depots, airports, commercial/institutional building
- Candidate with knowledge of Euro code design and BIM integration or Specialist Professional Engineer status in Geotechnical Engineering will have added advantage
- Highly qualified candidates will be considered for Principal positions

## **SENIOR DESIGN ENGINEERS (CIVIL/STRUCTURAL/ GEOTECHNICAL) – JOB ID 25632**

### Responsibilities

- Undertake detailed design in one or more of the following field of expertise: Civil, Bridge/Tunnel/ Building Structures, Geotechnical, Underground Excavation and Tunneling works
- Develop design concepts and construction methodologies and provide leadership in sectional project execution
- To liaise with Client, Client's Consultants, Contractor, and Authority to obtain design approval

### Requirements

- Degree in Civil and Structural Engineering or its equivalent recognized by the Professional Engineers Board of Singapore
- Minimum 6 years of relevant design experience
- Experience in the design and coordination in high rise/institutional/healthcare/industrial buildings, bridges, underground MRT tunnels or MRT stations
- Experience in concrete and steel structures design
- Familiar with local permitting and submission requirements
- Those with knowledge of Euro code design, excellent basic knowledge with hands on experience in FEM analysis and BIM integration is preferred

## **DESIGN ENGINEERS (CIVIL/STRUCTURAL/ GEOTECHNICAL) – JOB ID 25636**

### Responsibilities

- Undertake detailed design in one or more of the following field of expertise: Civil, Bridge/Tunnel/ Building Structures, Geotechnical, Underground Excavation and Tunneling works
- Support the Senior Engineers in the day-to-day execution of projects
- Support the Senior Engineers in the day-to-day liaison with the Client, Client's Consultants, Contractor, and the Design
- Checker to obtain approval of design and drawings

### Requirements

- Degree in Civil and Structural Engineering or its equivalent that is recognized by the Professional Engineers Board of Singapore
- Minimum 3 years relevant experience
- Good exposure in the analysis and design of geotechnical works, concrete structures, steel structures, civil works, or soil-structure interactions
- Good knowledge of the various engineering design software and analytical tools

## **MECHANICAL AND ELECTRICAL**

### **PRINCIPAL (MECHANICAL/ELECTRICAL) – JOB ID 32979**

#### Responsibilities

- Assume the role of PIC/PM and QP/PE in projects.
- Head one of the divisions in the Company's Departments if appointed to do so.
- Assist the Head / Deputy Head / Division Head in formulating, implementing and achieving Company strategies, goals.
- Assist the Company in sourcing and securing new businesses opportunities /projects.
- Provide guidance and training and improve technical knowledge of the employees.
- Standardize technical standards and practices for the Company.
- Responsible and committed to the development, implementation, communication, participation and continual effectiveness of the SHEQ management system.
- Promote Ethics, Sustainability and Corporate Social Responsibility values.

#### Requirements

- Minimum 10 years' post-graduate experience
- Degree graduate from recognised University
- Registered with the Professional Board of Engineers/ Board of Architects
- Experience in design, design development and contract administration work
- Proven team leader with strong leadership and people skills. Able to plan, organize and deliver project deliverables and bottom line
- Able to lead multiple project teams
- Good business acumen
- Must have drive to develop the business

### **ASSOCIATES (MECHANICAL/ELECTRICAL) – JOB ID 25640**

#### Responsibilities

- Lead and manage a team of engineers in mechanical or electrical services for the project from concept stage, design development, contract documentation, authority submissions, site administration to project completion
- Applicant shall be technically competent in his or her discipline and would be required to perform duties as a Project Manager for major projects

#### Requirements

- Recognised engineering degree with minimum 10 years of post graduate working experience in building services industry
- Registered Professional Engineer Singapore will be preferred

## **SENIOR DESIGN ENGINEERS (MECHANICAL) – JOB ID 25641**

### Responsibilities

- Lead and manage a team of engineers in mechanical services for the project from concept stage, design development, contract documentation, authority submissions, site administration to project completion

### Requirements

- Recognised degree with minimum 5 years of experience in building services industry

## **SENIOR DESIGN ENGINEERS (ELECTRICAL) – JOB ID 25642**

### Responsibilities

- Lead and manage a team of engineers in the electrical services for the project from concept stage, design development, contract documentation, authority submissions, site administration to project completion

### Requirements

- Recognised degree with minimum 5 years of experience in building services industry

## **DESIGN ENGINEERS (MECHANICAL) – JOB ID 25646**

### Responsibilities

- Assist in the project from concept stage, design development, contract documentation, authority submissions, site administration to project completion

### Requirements

- Recognised degree with minimum 1 year of experience in building services industry

## **DESIGN ENGINEERS (ELECTRICAL) – JOB ID 25647**

### Responsibilities

- Assist in the project from concept stage, design development, contract documentation, authority submissions, site administration to project completion

### Requirements

- Recognised degree with minimum 1 year of experience in building services industry

## **BIM MANAGER - JOB ID 32837**

### Responsibilities

- Establish and agree upon a BIM Execution Plan, ensuring on-going compliance and continuous improvement, as well as perform any and other responsibilities or functions as required in the BIM Execution Plan.
- Oversee, coordinate and manage BIM projects.
- Provide internal BIM consultancy for projects.
- Manage processes, implementation, best practices and techniques of BIM and related tools.
- Determine the conventions to be followed for reviewing BIM models and associated deliverables.
- Monitor the progress of design to ensure it is according to planned schedule.
- Responsible to participate and support the Company's SHEQ within their scope of duties.

### Requirements

- Degree in Architecture / Structural / Mechanical or its equivalent with minimum 5 years' relevant experience
- Well-verse in local BIM e-submission process, requirements and guidelines
- Trained in BIM Modeling and BIM Management
- Possess BIM knowledge and experience of Autodesk Building Design Suite software including Revit Architecture / Structural / Mechanical

## **SITE BASED**

### **SENIOR/RESIDENT ENGINEERS (C&S, M&E) – JOB ID 27317 & 27318**

#### Responsibilities

- To take instruction from Superintending Officer or Consultant.
- To ensure that the construction, civil, building and M&E works are constructed in accordance with drawings and specifications and the Building Control Act and Regulations.
- To monitor and report on the progress of works.
- To carry out inspection of civil and structural engineering, mechanical and engineering works prior to concreting or subsequent construction works
- To supervise concreting, pavement, drainage construction work (applicable for C&S site supervisor).
- To carry out checks on compaction and curing of concrete (applicable for C&S site supervisor).
- To carry out checks on striking of formwork, re-props and removal of props (applicable for C&S site supervisor).
- To carry out checks on quality & erection of precast components (applicable for C&S site supervisor).
- To check on structural steel works (applicable for C&S site supervisor).
- To check and assess temporary works by the contractors to ensure that the C&S, M&E and building works are safe and in compliance with all relevant regulations.
- To carry out inspection on defects rectification works.
- To carry out supervision and inspection of the works as directed by the Supervision QP, CRE, consultants or Superintending Officer.
- To manage and supervise the Resident Engineer (if any) and Resident Technical Officer under his charge
- To ensure that records of all civil and structural engineering works, mechanical and engineering works including records of tests, defect rectification, inspections, work progress, material and equipment on site, safety, etc, are timely updated and properly kept.
- To attend site, progress, variation and coordination meetings.
- To verify all reports and claims relating to C&S and M&E works submitted by the contractors.
- To resolve contractor's queries and coordinate the works of the contractors and other contractors on site.
- To liaise with all relevant authorities.
- To check on quality of materials delivered to site and report to S.O. of any materials that are not conforming to the specification.
- To verify reports and claims submitted by contractors.
- To maintain proper and updated daily records of all works done including records of tests, inspections, status of work, safety, site diary, material on site and equipment on site, labour force, day works, provisional items or provisional quantities etc.
- To keep accurate record of variations as instructed or approved by the Superintending Officer and to maintain a set of updated drawings on site.
- To inspect and take over completed works and report defects.
- To ensure contractors maintain the safety, cleanliness and tidiness of the site.
- To check all drawings (including shopdrawings, construction drawings) and specifications for discrepancies and to report to the Supervision QP, consultants or Superintending Officer.
- To ensure that works are carried out in a safe and proper manner.
- Feedback site problems, discrepancy and irregularities to Supervision QP, consultants or Superintending Officer.
- To adhere to the shift duty roster assigned by the Consultant or Chief Resident Engineer.

## Requirements

### Resident Engineer (RE-C&S)

- The RE-C&S shall have minimum five (5) years of relevant experience as a civil engineer, of which at least three (3) years shall be in supervision of works similar in nature to major construction works in buildings, drainage, pavement, taxiways and runways.
- The RE-C&S shall possess a civil and structural engineering degree recognised by the Professional Engineers Board of Singapore.
- The RE-C&S shall be accredited with the Joint Accreditation Committee of the Institution of Engineers Singapore and the Association of Consulting Engineers Singapore.
- The RE-C&S may lead C&S site staff to monitor, supervise and inspect works as directed by CAG and/or the project consultants. He must possess good leadership qualities, organisational and inter-personal skills.
- Conversant with statutory code and requirements for site supervision, quality control procedures, construction administration and submission of progress report.
- Possesses strong supervision and leadership skills.
- Must be willing to do shift work.

### Resident Engineer (RE-M&E)

- The RE-M&E shall have minimum five (5) years of relevant experience as a mechanical and electrical engineer, of which at least three (3) years shall be in supervision of works similar in nature to major construction works in buildings, services laying and lighting & control systems.
- The RE-M&E shall possess a mechanical or electrical engineering degree recognised by the Professional Engineers Board of Singapore.
- The RE-M&E may lead M&E site staff to monitor, supervise and inspect works as directed by CAG and/or the project consultants. He must possess good leadership qualities, organisational and inter-personal skills.
- Conversant with statutory code and requirements for site supervision, quality control procedures, construction administration and submission of progress report.
- Possesses strong supervision and leadership skills.
- Must be willing to do shift work.

## **CORPORATE**

### **SENIOR BIM MANAGER – JOB ID 32060**

#### Responsibilities

- Provide BIM leadership to further enhance and update the BIM capabilities within the Company
- Maintain and update Company's BIM Deployment Plan
- Responsible for Company's BIM system, standards development, workflow, documentation, implementation, monitoring and enforcement
- Establish and set clear directions on the modelling guidelines, collaboration procedures and BIM execution plans
- Develop new BIM initiatives and capabilities in line with the prevailing government plans, industry practice and market trends
- Liaise with BCA on fulfilling the Company's Construction Engineering Capability Development Programme (CED) requirement to optimize the funding adoption
- Provide both managerial and technical leadership to the BIM professionals. Advise and drive various initiatives to realise the company long-term vision of BIM application and integration of various BIM models and platforms
- Advise on the procurement of necessary BIM platform and softwares to support the company long term BIM objectives
- Maintain high level of competency of software through continued use, training and assist project team on the implementation of BIM softwares
- Research, keep abreast and update departments on BIM related softwares, regulations, best practices and technologies
- Work with departments and project teams to identify and resolve technical issues in BIM
- Any other duties deemed necessary and as assigned

#### Requirements

- Degree in Engineering/ Architecture and completed certification course in BIM Management
- At least 10 years of relevant work experience and at least 5 years of experience in BIM Management
- At least 3 years of experience working in a Consultant and successfully instituted a BIM Company Deployment Plan as well as implement BIM Project Execution Plan for at least 2 BIM projects
- Familiar with various aspects of engineering e.g. Civil, Structural, Architectural, Mechanical and Electrical
- Knowledge in various BIM platforms such as Revit, TEKLA, Architectural CAD and in establishing the required processes, procedures and framework for BIM at Company and Project level
- Excellent people and communication skills
- Highly motivated and able to work in fast pace environment



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