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Multi-Disciplinary Firm Specializing in Civil Engineering Infrastructural Development Projects, Civil and Structural Design, Project Management and Construction Supervision

Title: Water Design Engineer

Role: The role supports the Water Technical Lead by providing technical expertise to ensure that projects are delivered to cost, schedule, technical and quality standards.

Minimum qualification: BSc. Eng. (Civil) / B.Eng. Civil or BTech Civil; Registered with ECSA or working towards getting registered within 12 months

Minimum years of relevant experience:

- ✓ 6 years for BSc Eng/ BEng qualified individual
- ✓ 7 years for BTech qualified individual

Job description Summary: The Water Design Engineer is responsible for all water engineering design and project implementation matters on all assigned projects. The incumbent is responsible for project initiation, client liaison, problem identification, feasibility studies, scope definition, solution development, design development, project-related statutory approvals, tender documentation, construction procurement and project implementation.

Key Responsibilities:

- Carryout water & wastewater technical and design activities / duties :
 - Feasibility studies,
 - Conceptual design development including options analyses,
 - Detailed design development including solution modelling,
 - Cost benefit analysis of design options as the projects require,
 - Detailed specification of water engineering elements to meet the overall project specifications,
 - Produce bill of quantities and estimated costs
 - Compile tender documents and
 - Participate in the project and construction procurement processes
- Experience in the design and management of water engineering projects
 - Water reticulation
 - Sewer reticulation
 - Storm water design
 - Master planning
 - Water and waste water treatment plants
 - Reservoirs
 - Towers
 - Pipe networks
 - Pump stations
 - Dams (added advantage)
- Work closely with the all parties in the project team to ensure the right solution is delivered,
- Providing assistance for marketing with technical information and support required for the marketing effort and preparation of relevant proposals and tenders,
- Contract management (GCC, FIDIC, NEC)
- Use and apply relevant water engineering design software efficiently to increase productivity
- Apply water engineering design standards and guidelines in design & delivery of projects,



- Participation in engineering activities and interdisciplinary interfaces in close cooperation with the other discipline engineers.
- Ensuring technical requirements defined in the contract are properly incorporated in the engineering deliverables.
- Handle complex problem-solving tasks, applying appropriate analysis with high attention to technical detail
- Attending to site requirements as and when required
- Performing project management role and contract administration requirements,
- Liaise with clients and ensure that programmes and projects are managed effectively to ensure delivery in a manner which meets quality, time and budget specifications,
- Maintain extensive technical knowledge of engineering systems, design, applications of engineering processes and materials, and engineering applications of current engineering technologies
- Compliance with ISO9001/2015 QMS systems, in terms of the specific work processes that must be undertaken,
- Apply and incorporate safety requirements in design and consider functional and maintenance requirements during the operation phase of the project and
- Train, mentor and upskill junior engineers, technologists and technicians

Desired Attributes

- Excellent interpersonal skills,
- Be a team player,
- Be proficient in application of water design software e.g. civil 3D, Techno Cad Suite, Hec-Ras, Epanet, PCSWMM, etc
- Good analytic skills,
- Ability to produce good quality work under pressure,
- Work beyond the call of duty and
- Good communication skills
- Excellent organisational skills and able to multi-task
- Must be able to plan and prioritise work load effectively
- Excellent client service focus
- Flexible approach to work

