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Principal Electrical Design Engineer Jobs In Ajman | AECOM Energy

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Company: AECOM Energy

Location: ajman

Category: other-general

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Company Description

We will give you the flexibility you need to do your best work with hybrid work options. Whether you're working from an AECOM office, remote location or at a client site, you will be working in a dynamic environment where your integrity, entrepreneurial spirit and pioneering mindset are championed. You will help us foster a culture of equity, diversity and inclusion – a safe and respectful workplace, where we invite everyone to bring their whole selves to work using their unique talents, backgrounds and expertise to create transformational outcomes for our clients. We will encourage you to grow and develop your career with us through our technical and professional development programs and diverse career opportunities. We believe in leadership at all levels. No matter where you sit in the organization you can make a lasting impact on the projects you work on, the teams and committees you join and our business. We offer competitive pay and benefits, well-being programs to support you and your family, and the development resources you need to advance your career. When you join us, you will connect and collaborate with a global network of experts – planners, designers, engineers, scientists, consultants, program and construction managers – leading the change toward a more sustainable and equitable future. Join us and let's get started. As an Equal Opportunity Employer, we believe in each person's potential, and we'll help you reach yours.

Job Description

Ability to manage/lead a design and approval process interfacing with the project team,

Clients and Stakeholders In-depth and strong understanding of Abu Dhabi/Dubai/UAE/KSA and Qatar Authority guidelines is a must Lead the design from Data collection, validation, identify design gaps, Prepare Concept master plan stage to Detailed Master Plan in terms of utility corridor space proofing, ROW, coordination with wet, roads, transportation, landscape and building teams Develop/Review of Dry utilities Master plan report, derive demand load calculations, tie in point requirements, Full understanding of dry utilities and infrastructure projects from Concept to IFC stage Strong infrastructure engineering background with previous experience on infrastructure projects Thorough experience in Grid stations, primary substation requirements, allocating HV corridor up to 400kV level, detailed design of substations, feeder pillars and service turrets, MV up to 33kV and above, LV networks, calculations, excellent report writing skills Understanding of 132/220/400 KV overhead and underground lines, relocation, and protection requirements of dry utilities including power, telecom, and lighting Strong understating of HV/MV/LV equipment, generators and power backup, traction power for rails including the medium voltage to low voltage distribution Prepare/Review the telecommunication infrastructure Network Design including ducts, manholes Design/Review of Street Lighting for all type of roads, ROW, Lighting Calculations, SLDs, Load schedules, landscape lighting branch wiring etc., Review the technical deliverables as per local authority and town planning department requirements for each dry services Attend Client design meetings, kick off meetings, progress meetings, workshops, prepare presentation and lead dry utilities design as front end when required, conduct internal trainings, and provide technical support to graduate and engineers Prepare/Review Clarifications to Contractor RFIs, Review/approve any key technical submittals related to electrical works and dry utilities (if required) Work towards digitalization skills, innovations, and improvements to manage workload Able to manage multiple teams with diverse backgrounds on geographically and culturally diverse teams, manage the projects with low design cost centres of the organisation. Manage/lead the team electrical engineers, Senior Engineer and CAD technicians in the project(s), effective time management, planning, reporting to line manager in coordination with project manager and other all relevant disciplines as required. Able to work on multiple bids and proposals and assist the team lead and disciplines lead in terms of pricing, methodology and options Excellent knowledge and focus towards to Quality of design, review and take ownership of the deliverables produced and ensure the design safety is followed in all projects including identifying risks, mitigation, and design assumptions registers

updateDesign of electrical systems and dry utilities using Auto CAD Civil3D experience and skills including ProjectWise, Infracore, Navisworks, BIM etcExperienced in Electrical design softwares such as ETAP, Amtech, Dialux and other power system studies including Load flow analysis, short circuit studies, harmonic analysis, motor acceleration studies, transient and steady state analysis Senior technical resource may serve as technical advisor for teamProvides specialized technical input to studies and design for staff's specific area of expertise.Develops study and design procedures to facilitate high quality cost effective work by others.Participates in interdisciplinary review of project deliverables.Develops construction cost estimates and estimates of technical efforts for projects.Uses expertise in all steps of completing discipline component of PS&E package.Performs quality control review of design calculations or drawings.Prepare technical specification sections.Provides input to the development of engineering budget and schedule to meet requirements.

Qualifications

MINIMUM REQUIREMENTS:

More than 15 years of experience in Design Only, Candidates with Contracting, Construction Supervision and Building projects are not preferred PREFERRED

QUALIFICATIONS:

Minimum Bachelors' Degree in Electrical/Electronic Engineering,

Additional Information

With infrastructure investment accelerating worldwide, our services are in great demand, and there's never been a better time to be at AECOM! Join us, and you'll get all the benefits of being a part of a global, publicly traded firm – access to industry-leading technology and thinking and transformational work with big impact and work flexibility. AECOM provides a wide array of compensation and benefits programs to meet the diverse needs of our employees and their families. We also provide a robust global well-being program. We're the world's trusted global infrastructure firm, and we're in this together – your growth and success are ours too.

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