

## Power System Analysis Expert

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Company: Maxima Global Singapore

Location: Sharjah

Category: other-general

Qualification: PostGraduation in Power Systems Engineering (MTech / ME). Ph.D. in

Power Systems is an added advantage. Job Role: Power System Analysis

Expert Experience: Minimum 10 years professional experience in Power System Studies

with at least 5 years experience as a lead Power System Analyst. Criteria: Experience in a lead position in power system studies and grid integration studies for Renewable Power Plants.

Should have profound knowledge about renewable generation (Solar PV inverters wind energy systems) HVDC FACTS (STATCOM SVC SCG). Should have hands on experience

working on software like PSCAD PSS/E ETAP Dig SILENT. Required Skills Substations &

Grid Integration Must possess the required Skill for performing the following studies: A) EHV

System Substation & Transmission Experience in Insulation coordination studies cable

energization transformer energization reactor energization TRV direct and indirect lightning

strike study very fast transient over voltage (GIS) using PSCD or similar Switching study

Power oscillation damping SubSynchronous Resonance study. Experience in performing

Ferroresonance Studies associated with Transformer EHV Cable. Experience in performing

the Secondary Arc current extinction study for performing successful auto reclosure study.

Selection of Surge Arrester Duty such as Residual Voltage Energy Level Experience in Grid

integration no Studies like Transient and Steady state stability studies voltage stability studies

harmonic studies power quality studies LVRT (Low Voltage Ride Through) and Fault Ride

Through studies. Reactive Power compensation studies (sizing of Filters) o Experience in

Contingency analysis for designing grid components. Knowledge & Working hands on

Experience in the following software: o PSCAD EMTPRV PSSE Dig SILENT o ETAP CYME

MATLAB CDEGS AVEVA.B) Renewables Load flow studies to assess the overloading elements in the network as per the Renewable Energy Systems (RES) capacity addition plans/scenarios. Identification of reactive power elements required under multiple cases for RES capacity addition plans/scenarios. Shall have knowledge on Modelling of Renewable Energy sources (especially Solar BESS & Wind). Assessment of the operational challenges posed by Different RES technologies Solar Wind Verification of grid code compliance before energization of the power plant under consideration of all relevant operating scenarios. The following studies deemed to be familiar C) Utility Substation / Industrial Substation ( it is deemed to have experience in this field) Load Flow Short Circuit Calculation Relay Coordination Experience in performing motor acceleration and reacceleration studies as per process requirement for motor grouping. Experience in performing short circuit analysis and sizing the switchgear and circuit breaker as per the standard. Experience in performing arc flash analysis as per the international standard. D) Preferred Skills (i.e working experience in the project): Experience in design of power generation mix for microgrid and battery storage systems using software like HOMER or similar. Experience in protection relay selection coordination studies over current / Earth fault Unit protection distance protection motor protection generator protection and grid tie in. Modelling of Phase Shifting Transformer. Good experience in handling customers and Utilities/Off takers related to the approval of Grid impact studies. Experience in HVDC STATCOM projects including Electromagnetic field (Compatibility) studies. General Candidate shall be very well familiar with the IEC IEEE DEP and other industrial standards. Detailed Analysis of the available technological solutions in market for performing system studies. Ability to assume the typical input data parameter for each study as per project specifications and standards where the actual input data/parameters are not available. Good knowledge and interpretation of various country specific Grid codes (requirements related to Middle East region is preferred) Able to provide various optimization possibilities along with compliance to Grid code requirements. Knowledge in identifying the issues/challenges which may arise during grid integration and suggest solutions. Additional Requirements: Teamwork & Leadership Should have the ability to foster teamwork and effectively guide and lead colleagues on projects & initiatives. Communication & Judgement Ability to effectively communicate to stakeholders and exercise decision making considering long term ramification. Commitment to work with smart and curious people of diverse backgrounds to address the bigger challenge. Business Tools proficiency with business tools like Outlook Spreadsheets PowerPoint Adobe Acrobat Word

MS Teams and others.

#J-18808-Ljbffr

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