

Electrical Engineer

Job Information

Recruiter
JAC International Co., Ltd.

Hiring Company
Data Center Engineering Company

Job ID
1621440

Industry
Other

Job Type
Permanent Full-time

Location
Tokyo - 23 Wards

Salary
6 million yen ~ Negotiable, based on experience

Refreshed
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General Requirements

Minimum Experience Level
Over 3 years

Career Level
Mid Career

Minimum English Level
Business Level

Minimum Japanese Level
Business Level

Minimum Education Level
Bachelor's Degree

Visa Status
Permission to work in Japan required

Job Description

We are seeking an experienced and motivated Electrical Engineer to join our engineering team. In this role, you will be responsible for the design, analysis, coordination, and implementation of electrical systems across construction projects.

You will apply your technical expertise in electrical engineering, system design, and project delivery to develop safe, reliable, and efficient solutions that meet project requirements and applicable industry standards.

Responsibilities

Pre-Engineering Stage

Conduct site surveys and electrical risk assessments, support preliminary engineering activities and test fits, and obtain budgetary pricing and lead-time information for major electrical equipment from vendors.
Design electrical systems, including power distribution, lighting, fire alarm, and low-voltage systems, in accordance with project specifications, applicable codes, and industry best practices.
Prepare detailed electrical drawings, schematics, and technical specifications using CAD software, ensuring accuracy, code

compliance, and coordination with other engineering disciplines.
Perform electrical load calculations to determine building power requirements, considering equipment, lighting, HVAC systems, and other electrical loads.
Select and specify appropriate electrical equipment, components, and materials based on project requirements, applicable standards, performance, and energy efficiency.

Engineering Design Phase

Develop tender and construction drawings and documentation, conduct value engineering, and support the end-customer approval process, including electrical system studies, reliability studies, cause-and-effect studies, RFQ compliance, and EHS compliance.
Collaborate with architects, engineers, vendors, contractors, and other project stakeholders to integrate electrical systems into building designs and test fits.
Address technical challenges and ensure effective coordination between electrical and other MEP systems.

Construction Phase

Prepare and issue drawing revisions as required, respond to Site Technical Queries (STQs), conduct site inspections, lead electrical commissioning activities, and manage as-built drawings.
Develop, implement, and review testing and commissioning (T&C) plans, ensuring electrical testing is carried out in accordance with relevant codes and standards.
Investigate and troubleshoot electrical system failures or malfunctions and develop effective solutions to ensure system safety and reliability.
Stay up to date with emerging technologies, industry trends, and electrical engineering best practices, identifying opportunities for innovation and continuous improvement.

Employee Benefits:
Health Insurance
Employees' Pension
Employment Insurance
Industrial Injury Insurance

Required Skills

Requirements
- Bachelor’s degree in Electrical Engineering or a related field. A Master’s degree or relevant professional certifications would be advantageous.
- Minimum 5 years of experience in electrical engineering, preferably within the construction industry and with a focus on building electrical systems.
- Proficiency in CAD/BIM software such as AutoCAD and Revit, along with electrical engineering and system analysis tools such as ETAP or SKM.
Strong understanding of electrical system design principles, applicable codes, and industry standards, with the ability to develop safe, efficient, and practical engineering solutions.
- Experience working with multidisciplinary teams, including architects, engineers, contractors, and vendors, to successfully integrate electrical systems into building designs.
- Strong knowledge of Medium Voltage (MV) electrical distribution systems, generators, UPS systems, and transfer switches.
- Knowledge of Short Circuit Coordination and Arc Flash (SCCAF) studies in accordance with relevant standards and codes, including NFPA and IEC requirements.
- Knowledge of MV/LV equipment protection, discrimination, coordination, and interlocking schemes.
- Excellent analytical and problem-solving skills, with the ability to identify technical challenges, develop effective solutions, and make sound engineering decisions.
- Strong written and verbal communication skills, with the ability to clearly communicate technical concepts to project stakeholders and collaborate effectively across diverse teams.
- Strong project management and organizational skills, including the ability to manage multiple projects, prioritize competing requirements, and meet project deadlines.
- Commitment to continuous professional development and staying current with emerging technologies, industry developments, and electrical engineering best practices.
- Willingness to conduct site visits as required.

Company Description

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