

Mechanical Engineer

Job Information

Recruiter
JAC International Co., Ltd.

Hiring Company
Data Center Engineering Company

Job ID
1621441

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

Job Summary

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

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

Responsibilities

Pre-Engineering Stage

Conduct site surveys and mechanical risk assessments, support preliminary engineering activities and test fits, and obtain budgetary pricing and lead-time information for major mechanical equipment from vendors.
Design and develop mechanical systems, including HVAC, plumbing, fire protection, and other associated building systems,

in accordance with project requirements, applicable codes, industry standards, and energy-efficiency objectives.
Prepare detailed technical drawings, schematics, and specifications using CAD software, ensuring accuracy, code compliance, and coordination with other engineering disciplines.
Select and specify appropriate mechanical equipment, components, and materials based on project requirements, performance criteria, sustainability objectives, and budget considerations.

Engineering Design Phase

Develop tender and construction drawings and documentation, conduct value engineering, and support the end-customer approval process, including CFD analysis, acoustic and vibration studies, RFQ compliance, and EHS compliance.
Incorporate customer standards and technical requirements into design documentation and support the procurement of Owner-Furnished Equipment (OFE) for mechanical systems.
Manage and coordinate the vendor submittal and technical review process and support the evaluation and selection of mechanical contractors.
Collaborate with architects, engineers, vendors, contractors, and other project stakeholders to integrate mechanical systems into building designs and test fits.
Address technical challenges and ensure effective coordination between mechanical and other MEP systems.

Construction Phase

Prepare and issue drawing revisions as required, respond to Site Technical Queries (STQs), conduct site inspections, lead mechanical commissioning activities, and manage as-built drawings.
Develop, implement, and review Testing & Commissioning (T&C) plans, ensuring mechanical testing is carried out in accordance with applicable codes, standards, and project requirements.
Perform quality-control inspections of mechanical systems, equipment, and installations to verify compliance with approved designs, specifications, and applicable industry standards.
Manage and oversee mechanical engineering activities throughout construction, including schedule coordination, resource planning, budget considerations, and technical coordination to support successful project delivery.
Identify and resolve mechanical system issues during construction and commissioning, working with contractors, vendors, and other engineering disciplines as required.
Stay current with emerging technologies, industry developments, and mechanical 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 Mechanical Engineering or a related field. A Master’s degree or relevant professional certifications would be advantageous.
Minimum 5 years of experience in mechanical engineering, preferably within the construction industry, with a focus on HVAC and plumbing system design.
Proficiency in CAD/BIM software such as AutoCAD and Revit, as well as engineering analysis and HVAC load calculation software such as Carrier HAP.
Knowledge of fluid dynamics modelling software, such as PipeFlo, would be advantageous but is not essential.
Knowledge of Building Management Systems (BMS) and Fuel Oil Control Systems.
Strong understanding of mechanical 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 mechanical systems into building designs.
Knowledge of applicable codes and standards, including ASHRAE, NFPA, and local building codes, with the ability to ensure compliance throughout the design and delivery process.
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 mechanical engineering best practices.
Willingness to conduct site visits as required.

Company Description

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