



PR/096878 | Mechanical Design Engineer

Job Information

Recruiter

JAC Recruitment Singapore

Job ID

1585833

Industry

Other (Manufacturing)

Job Type

Permanent Full-time

Location

Singapore

Salary

Negotiable, based on experience

Refreshed

April 21st, 2026 09:01

General Requirements

Minimum Experience Level

Over 1 year

Career Level

Mid Career

Minimum English Level

Fluent

Minimum Japanese Level

None

Minimum Education Level

Associate Degree/Diploma

Visa Status

No permission to work in Japan required

Job Description

Company Overview

Our client is a global leader in the engineering and manufacturing industry, renowned for delivering high-performance engine systems and power solutions. They design, manufacture, and maintain cutting-edge products and systems, including power plants, transportation systems, and industrial machinery. As they continue to drive growth and expansion, they are now seeking a Mechanical Design Engineer to join their team and contribute to their ongoing success.

Key Responsibilities

Design Management & Development:

- Create 2D & 3D parts and assembly drawings for generator set models using SolidWorks.
- Lead the mechanical design and development of generator set enclosures, ensuring acoustic, thermal, safety, and structural requirements are met.

- Collaborate with manufacturing, supply chain, and vendors to optimize designs for cost, manufacturability, and durability.
- Oversee testing and validation of enclosures (acoustics, vibration, thermal, IP/weatherproof).
- Utilize CAD/CAE tools for 3D design, validate CFD/FEA analysis, and manage product data.
- Support continuous improvement initiatives, implement design best practices, and issue Engineering Change Orders (ECO) for design improvements.
- Engage with vendors to evaluate the design and performance of equipment selected for our products.

Pre-Sales Design Support:

- Provide mechanical design support from concept development through the pre-sales stage.
- Ensure all designs meet performance, quality, and customer requirements.
- Work closely with internal stakeholders (sales, application, procurement, production teams) to align engineering feasibility with market needs.
- Drive innovation in genset design, modularity, and digitalization.
- Manage pre-sales engineering changes, process design reviews, and conduct risk assessments.
- Work with the application team to perform engineering feasibility on components, equipment, and services proposed by vendors, and liaise to deliver customized products for specific project needs.

Key Requirements

Education & Experience:

- Bachelor's degree in Mechanical Engineering or related field.
- 1+ years of experience in product design and manufacturing.

Technical Skills:

- Strong background in sheet metal design & fabrication, acoustics, thermal management, and structural design/FEA.
- Proficiency in CAD software (SolidWorks, Creo, CATIA, or NX).
- Knowledge of fabrication processes, coatings, corrosion protection standards, and surface treatment.
- Experience in design-to-manufacture lifecycle management, supplier/vendor collaboration, and testing/validation management.
- Experience with Product Data Management (PDM) is an advantage (optional).

Soft Skills:

- Exceptional problem-solving and troubleshooting abilities.
- Strong leadership and planning skills.
- Excellent communication skills for effective internal stakeholder and customer engagement.

Apply online or feel free to contact me directly for more information about this opportunity. Due to the high volume of applicants, we regret to inform that only shortlisted candidates will be notified. Thank you for your understanding.

Aloysius Loh
JAC Recruitment Pte Ltd
EA Personnel: R24121320
EA Personnel Name: LOH CHUAN LIANG ALOYSIUS

#LI-JACSG
#countrysingapore

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