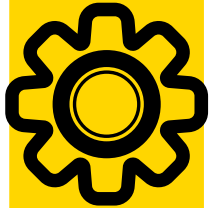


JUNIOR MECHANICAL ENGINEER

RGD Consulting Engineers · Full-Time

2024

ROLE OVERVIEW



*Designing Systems That Meet
Global Standards*

Junior Mechanical Engineer

As a Junior Mechanical Engineer in the SMEP environment, the role focuses on designing piping systems for diverse projects. Key responsibilities include ensuring compliance with International Building Codes and engineering standards while supporting multidisciplinary project coordination and technical activities.

CORE DESIGN

RESPONSIBILITIES

Main Design Duties

Core responsibilities center on designing and documenting mechanical systems using industry-standard software and methodologies to ensure code compliance and project success.

AutoCAD MEP & Revit

Design piping systems using AutoCAD MEP and Revit software.

Engineering Drawings

Develop detailed engineering drawings and Building Information Models.

HVAC Calculations

Perform HVAC cooling load and energy code compliance calculations.

Equipment Calculations

Conduct engineering calculations for water heaters and steam generators.

Code Compliance

Ensure all designs meet International Building Code requirements.

ENGINEERING CALCULATIONS & COMPLIANCE

100% Code Compliance

All engineering calculations ensure system sizing accuracy and safety across commercial, residential, and public-use projects. Strict adherence to local and international building codes and energy standards guarantees regulatory compliance.

Key achievement: Ensured 100% compliance with energy code requirements in all assigned projects.

SOFTWARE & PROJECT TOOLS

AutoCAD MEP & Revit

Newforma Project Management

MEP Coordination & Digital Collaboration



Essential Technical Tools

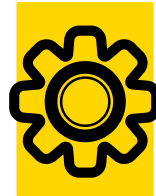
Proficiency in industry-standard software tools is essential for delivering high-quality MEP designs and maintaining efficient project workflows.

Digital Tools Drive Project Success

COLLABORATION & COORDINATION

Cross-Functional Teamwork

Coordinated daily with multidisciplinary engineering teams, architects, consultants, and project managers to ensure seamless project execution. Optimized system performance and constructability through effective cross-functional collaboration and clear communication across all stakeholders.



Building Success Through Partnership

PROJECT TYPES & DELIVERY

Commercial projects

Office buildings, retail spaces, and corporate facilities with complex MEP systems.

Residential developments

Multi-family housing and apartment complexes requiring efficient system design.

Mixed-use developments

Integrated commercial and residential projects with coordinated infrastructure.

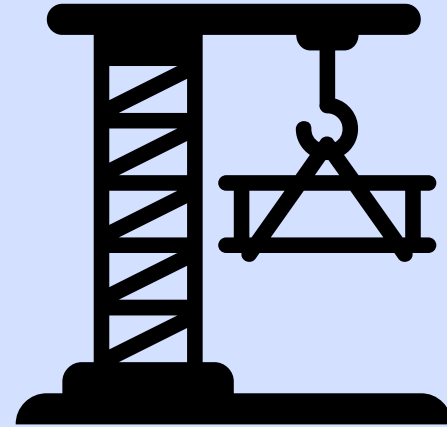
Quality & compliance

Ensured all deliverables met regulatory requirements and quality standards.

Full project lifecycle

Supported multiple phases from design development to construction implementation.

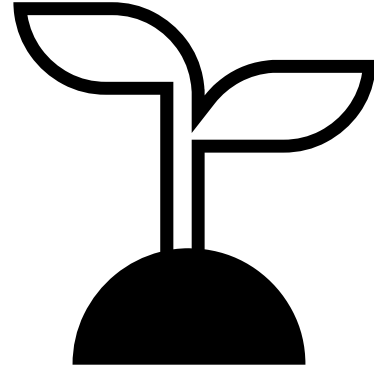
Contributed to a wide range of project types ensuring quality standards, regulatory compliance, and timely delivery across all phases.



SUSTAINABILITY & ENERGY EFFICIENCY

Traditional vs. Efficient

Our approach contrasts traditional system sizing with efficient system sizing and comprehensive energy analysis. We implement high-performance building design strategies that support sustainable infrastructure development. Through energy-efficient HVAC design, we significantly reduce environmental footprint while maintaining optimal system performance.



Building a Greener Future

THANK YOU

Questions Welcome

RGD Consulting

Let's Connect