

Senior Engineer/ Engineering Lead-

The roles and responsibilities of a Senior Engineer in the building services industry encompass leadership, technical expertise, and project management. Here are typical roles and responsibilities for a Senior Engineer in the building services industry:

Project Leadership:

Lead and oversee building services projects from conception to completion. Provide guidance to junior engineers and other project team members.

Design and Engineering:

Take a lead role in the design and engineering of building systems, including HVAC, plumbing, electrical, and fire protection.

Ensure designs meet project requirements, codes, and industry standards. Ensure usage of advance software for calculations

Technical Expertise:

Provide advanced technical knowledge and expertise in building services engineering. Stay updated on the latest technologies, codes, and industry best practices.

Project Management:

Manage and coordinate all aspects of building services projects, including scope, schedule, and budget. Collaborate with project managers to ensure successful project delivery.

Client Interaction:

Interact with clients to understand project requirements, provide technical insights, and address client concerns.

Present engineering solutions and project updates to clients.

Team Management:
Supervise and mentor junior engineers and other team members.

Allocate tasks and responsibilities based on team members' strengths and project requirements.

Coordination with Other Disciplines:

Collaborate with engineers from different disciplines (electrical, mechanical, etc.) to ensure seamless integration of building systems.

Address and resolve interdisciplinary clashes and conflicts.

Quality Control:

Implement and oversee quality control processes to review and validate the accuracy and completeness of engineering deliverables.

Conduct regular reviews to identify and resolve design

*issues. **Cost Estimation and Budgeting:***

Lead the estimation of project costs and provide input on material quantities and labor requirements. Work with project managers to develop and manage project budgets.

Testing and Commissioning:

Oversee testing and commissioning activities to ensure building systems meet performance requirements.

Resolve any issues identified during testing.

Regulatory Compliance:

Ensure that engineering designs comply with relevant building codes, regulations, and industry standards.

Stay updated on changes in codes and standards affecting building

*services. **Risk Management:***

Identify and mitigate risks associated with building services projects. Develop contingency plans to address unexpected challenges.

Training and Development:

Provide training and mentorship to junior engineers to enhance their technical skills and knowledge. Encourage continuous learning and professional development within the team.

Client Relationship Management:

Build and maintain strong relationships with clients.

Ensure high levels of client satisfaction by delivering quality engineering

*solutions. **Innovation and Optimization:***

Foster innovation within the engineering team and explore opportunities for process optimization. Integrate sustainable and energy-efficient solutions into building service designs.

Documentation Oversight:

Oversee the preparation of technical drawings, specifications, and other engineering documentation. Ensure documentation is accurate, clear, and delivered on schedule.

Health and Safety Compliance:

Uphold and promote health and safety protocols during project work.

Implement safety measures and ensure compliance with industry

standards. Community Engagement:

Represent the organization in industry conferences and forums.

Contribute to thought leadership and participate in community engagement activities.