



Title	Senior Analysis Engineer
Reports to	Design Manager
Deputy	N/A
Purpose	<p>The Senior Analysis Engineer is an engineer with responsibility for undertaking or complying with the following:</p> <ul style="list-style-type: none"> • Analysis Tasks • Project Management Interaction • Technical Mentoring • Tendering Tasks • Quality Compliance • Health & Safety • Technically Responsible Person Role • Continual Improvement
Key Duties and Responsibilities	<p><u>Analysis Tasks</u></p> <p>Carrying out specific analysis tasks to meet the time, cost and quality requirements of projects. This may include but not be limited to:</p> <p>Scheme / detail design tasks consisting of:</p> <ul style="list-style-type: none"> • Static and dynamic stress calculations to BS2573, BS5950, Eurocodes, DNV standards and customer standards as required • Multibody system dynamics and functional calculations • Finite Element Analysis (FEA) including translation of CAD geometry • Thermal, seismic, piping, pressure vessel analysis • Computational Fluid Dynamics (CFD) analysis • Throughput, Reliability, Availability and Maintainability (TRAM) assessments • Failure Mode and Effects Analysis (FMEA) • Summary analysis / substantiation reports • Design review <p>Take part in;</p> <ul style="list-style-type: none"> • Client meetings • Testing activities • Post project review meetings <p>Maintaining the project's working folder</p>



Checking and approving of deliverables produced by other team members

Project Management Interaction

Interact with project management staff to achieve the best outcome for the projects;

- Agree remaining work durations
- Highlight (at the earliest opportunity) when a task will not be completed to a previously agreed timescale
- Identify and report change

Technical Mentoring

Act as mentor to a number of engineering staff to:

- Develop their technical knowledge and understanding
- Provide support in achieving developmental goals
- Encourage staff to develop their personal competencies

Tendering Tasks

This may include but not be limited to;

- Estimating durations for design of tender items
- Composing technical responses to quotation requests

Quality Compliance

Complying with JFN's quality policies and procedures, with particular emphasis on;

- Design procedure
- Document numbering and control

Health & Safety

Complying with JFN's health and safety policies and procedures, with particular emphasis on;

- Take reasonable care for own health and safety and the health and safety of others
- Report all accidents and near misses to their Line Manager or Safety Representative
- Not operate any equipment they have not been specifically trained to use



Job Description

	<p><u>Technically Responsible Person Role</u></p> <p>For a specific project or projects;</p> <ul style="list-style-type: none"> • Be accountable for the technical management and delivery within time cost and quality • Maintain technical compliance with the contract and resolve technical conflicts where possible • Ensure cross discipline integration • Assist the project management staff in: <ul style="list-style-type: none"> • Understanding the technical delivery such that they may manage budget / expenditure information • Reviewing progress and the critical path • Identify and minimise JFN exposure to risk • Identify and report change • Promote cohesion across the project team <p><u>Continual Improvement</u></p> <p>Continually seek methods to improve personal, design office and company performance and efficiency</p>
<p>Key Skills and Competencies</p>	<ul style="list-style-type: none"> • Has been responsible for a variety of diverse projects or activities ranging in both size and complexity. • Sound appreciation of manufacturing, assembly and test techniques • A high level of commercial awareness. • Sufficient technical knowledge and understanding of the industry to be able to technically lead a team, shape the outcome of a project and encourage and assist others in the delivery of that project • Ability to manage his / her own workload and self-manage to deliver tasks • Ability to make prioritisation decisions on work • Ability to read, understand and shape new procedures and standards • Is expected to need management rather than supervision • Is expected to be proficient in the production of standard analysis deliverables • Is expected to be an experienced user of relevant analysis tools, techniques and methods

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Job Description

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	<ul style="list-style-type: none">• Is expected to be conversant with legislation, regulations and codes applicable to their role and the projects they are working on.
Qualifications	<ul style="list-style-type: none">• Degree / HND / Higher Apprenticeship in a related discipline