

POSITION DESCRIPTION

STRUCTURAL ENGINEER

LOCATION: NEWCASTLE

ROLE PURPOSE

The purpose of the **Structural Engineer** is to provide engineering expertise to manage the condition of the site's structural and civil infrastructure in a cost-effective manner throughout the life of the terminal, maximizing plant availability, while ensuring safety and environmental compliance.

The key focus of this role is to assess plant condition, undertake detailed engineering investigations and structural calculations, and develop, prioritise and execute repairs/modifications to maintain the integrity, reliability and performance of structural assets.

REPORTING RELATIONSHIPS

Position Reports to:	Senior Structural Engineer	
Roles Reporting to this position: (D) Direct (ID) Indirect	– Not applicable	
Key Stakeholders:	Internal: – Engineers – Other members of the Assets Team – Operations Capability team (Mechanical Maintenance) – Safety Team – Commercial Team	External: – External suppliers and contractors – Consultants – Original Equipment Manufacturers (OEMs)

KEY ACCOUNTABILITIES & RESPONSIBILITIES

Major Accountabilities		Measures of Success
1.	Health, Safety and Environment • Demonstrate leadership across all Health, Safety, and Environment (HS&E) practices. • Ensure a safe and healthy work environment by leading and supporting: – NCIG's Safety Management System. – Risk assessment and hazard identification initiatives	• Proactive and visible leadership across all HS&E practices. • Consistent commitment to a zero-harm approach with all Workers, project teams, contractors, and external providers. • Safety-first execution of all works. • Effective utilisation of NCIG's Safety Management system.

Major Accountabilities		Measures of Success
	– Development and maintenance of safe work procedures – Ensuring robust auditing and compliance processes – Effective training and induction programs. • Support and actively contribute to NCIG's broader community and environmental initiatives. • Ensure a risk-based approach is adopted during system/architecture design and development activities which is auditable and demonstrates due diligence.	• Active participation in HSEC interactions. • Demonstrated auditable compliance with policies, systems, and statutory requirements. • Training and site inductions are maintained and up to date. • Contribution to meeting community expectations and NCIG's social responsibility objectives. • Auditable risk management process during design and development process. • Timely professional advice on safety issues with structures.
2.	Team & People Leadership • Role model NCIG's values and professional behaviours. • Be an effective member of the NCIG Assets & Infrastructure Team. • Provide project leadership and occasional site supervision for assigned tasks. • Role model the behaviours expected of a professional NCIG team member.	• Consistent demonstration of organisational values and behaviours. • Participation in: – Team development – Team performance – Open & effective communication – Co-operative working practices – Development of constructive relationships.
3.	Asset Integrity Management • Apply professional engineering expertise to: – Coordinate the plant inspection process – Collate and coordinate risk assessments of identified defects – Prioritise the identified defects – Provide technical support for the execution of repairs – Track the current state of asset condition – Participate in warranty establishment and support monitoring and execution. • Timely escalation of critical issues is imperative for the success of the role.	• Auditable process, compliant with NCIG policies, procedures. • Technical specifications are maintained and applied. • Structural maintenance group is supplied with a clear four-year program of prioritised work. • SIMple database is up to date and accurate.
4.	Technical and Plant Support • Provide discipline specific technical expertise in areas including:	• Technical reports. • Sketches & drawings. • Calculations.

Major Accountabilities		Measures of Success
	– Structural and civil design; including structural calculations – Review of consultant/OEM calculations and reports – Load and capacity assessment of structures and infrastructure – Support shutdown activities for Engineering and Projects groups by providing technical input and occasional labour coverage – Provide advice on temporary plant modifications – Contribute to and lead failure investigations – Provide advice and support to the Maintenance and Operations departments – Contribute to the overall Asset Management Plans for NCIG with discipline specific input and facilitation of some cross discipline workshops. • Participate in a continuous improvement process for asset integrity, including Investigate and trial new technologies and repair methods.	• Investigation reports. • Training current and meets legislative and site requirements.
5.	Contractor and Consultant Support • Coordinate contractor and consultant activities in a cost-effective manner with safety excellence. • Close liaison with Cat I Engineering contractors, Maintenance Supervisors and Planners. • Ensure contractors' work meets statutory and site requirements for safety, environmental and maintenance standards.	• Contractor performance meets specification conditions. • Contracts tendered and executed on schedule. • Competitive cost of tenders. • Safe work performance. • Implementation and maintenance of performance monitoring systems. • Cost effective use of human resources.
6.	Budgeting and Cost Control • Contribute to the NCIG budgeting system by assisting in development of Project budgets. • Contribution to management of month-by-month costs for the Asset Integrity group in Engineering.	• Clear and concise identification of budget requirements. • Measurement and monitoring in place according to plan. • Variance tracking, follow up and reporting including trend analysis. • Monthly forecast kept up to date.

Major Accountabilities		Measures of Success
7.	Stores and Supplies • Close liaison with Supply/Commercial team. • Assist in QA/QC and expediting of manufactured parts.	• Supplies and suppliers of high quality value for money. • Constructive and productive relationship with commercial and operations staff.

SKILLS, EXPERIENCE & QUALIFICATIONS

Essential:

- Formal degree qualifications in civil / structural engineering
- Ability to write and present reports and other engineering documentation to a range of target audiences
- Up to date knowledge of legislative requirements
- Demonstrated commitment and achievements in safety management

Desirable:

- Practical experience in a structural engineering and /or heavy industry project management role
- Experience in a bulk material handling or other heavy industry business
- Exposure to large dynamic machinery, such as stackers, reclaimers and ship loaders.
- Marine infrastructure experience
- Experience in computerised maintenance management systems and other technically oriented computer-based applications
- Knowledge of professional project management techniques
- Knowledge of protective coating systems

PERSONAL ATTRIBUTES

- Strong analytical and problem-solving skills
- Well-developed communication, negotiation, conflict resolution and influencing skills
- Superior planning and organisational skills
- Respect amongst peer group
- Action oriented
- Effective team member
- Business acumen
- Customer focused
- Willingness to learn and a strong drive for personal development

VALUES & BEHAVIOUR

At NCIG, our values are the principles that guide how we live, work and make decisions every day. Our values shape our culture, inform our behaviours, and are reflected in the way we interact with each other, our partners and the community.



we *care*, every day

Our, people,
customers and
community matter to
us



we're *proud* of what we do

Our expertise and
commitment deliver
results



great today, *better* tomorrow

Always embracing
change
to improve



together we are NCIG

Love our work
and succeed as a team