

ROLES AND RESPONSIBILITIES TEMPORARY WORKS DESIGN ENGINEER

Reporting to: Associate Director

Purpose of the role:

The APEX Core Engineering provides specialist engineering expertise in the design, review, assurance, and support of temporary works across Statom Group projects. The role ensures temporary works solutions are safe, compliant, coordinated, and suitable for the proposed construction methodology, sequencing, site conditions, and operational constraints. The postholder acts as a technical specialist within APEX Core Engineering and supports strong temporary works governance, risk control, and engineering consistency across the group.

Key duties and responsibilities

Temporary works design and technical delivery

- Develop, review, and support temporary works designs, calculations, drawings, design briefs, reports, and associated technical documentation.
- Provide specialist engineering input into temporary works solutions required to support safe construction, stability, access, sequencing, plant interface, and operational delivery.
- Design or review temporary works relating to excavation support, propping, formwork, falsework, temporary stability systems, working platforms, lifting support arrangements, access arrangements, and other construction-phase requirements as applicable.
- Ensure designs properly consider loading conditions, ground conditions, installation methodology, sequencing, temporary load paths, adjacent structures, inspection requirements, use, modification, and dismantling.
- Assess design briefs, surveys, site information, geotechnical data, methodology assumptions, and operational requirements to confirm suitability and completeness.
- Identify temporary works hazards, technical risks, design constraints, and interface issues and propose practical mitigation measures.

Engineering assurance and governance

- Ensure temporary works designs are categorised, checked, reviewed, approved, and issued in accordance with group procedures, recognised standards, and required control processes.
- Work in line with BS 5975 principles and recognised temporary works management arrangements.
- Maintain accurate, traceable, and auditable design records including assumptions, calculations, revisions, checking evidence, approvals, and issue status.
- Clearly define design limitations, sequencing requirements, loading restrictions, hold points, inspection requirements, and conditions for installation, use, modification, and dismantling.
- Support temporary works assurance processes, technical audits, design reviews, and investigations arising from incidents, concerns, or non-conformance.
- Escalate unauthorised changes, unsafe conditions, technical deviations, or design concerns immediately.

Project and operational support

- Provide specialist temporary works advice to Temporary Works Coordinators, project teams, site teams, estimators, planners, commercial teams, and senior stakeholders.
- Support tender submissions, construction methodology development, and delivery planning by identifying temporary works requirements and associated engineering constraints.

- Attend temporary works meetings, design reviews, site inspections, coordination meetings, and technical workshops where required.
- Respond to site queries and design amendment requests promptly and in a controlled manner.
- Ensure temporary works designs are clearly communicated to those responsible for implementation, inspection, and control.

Stakeholder and interface management

- Liaise with internal engineering teams, operational teams, clients, consultants, subcontractors, suppliers, and external designers on temporary works matters.
- Coordinate temporary works with permanent works, construction methods, logistics, plant requirements, geotechnical factors, and operational constraints.
- Communicate technical requirements clearly and professionally to both technical and non-technical stakeholders.
- Promote consistent application of temporary works standards, responsibilities, and control measures across Statom Group.

Professional contribution

- Act as a subject matter specialist in temporary works design within APEX Core Engineering.
- Support the development and improvement of temporary works procedures, templates, standard solutions, and technical guidance.
- Mentor and support engineers, graduates, Temporary Works Coordinators, and other colleagues where appropriate.
- Maintain up-to-date knowledge of industry standards, legislation, guidance, and best practice in temporary works design and management.
- Contribute to continuous improvement in engineering governance, technical consistency, and safe project delivery.

Key accountabilities

- Delivery and assurance of safe, compliant, and buildable temporary works designs.
- Effective identification, management, and escalation of temporary works risk.
- Strong compliance with temporary works procedures, checking requirements, and recognised standards.
- Clear communication of design assumptions, limitations, and control measures.
- Positive contribution to safe and efficient construction delivery across the group.

Decision-making authority

- Recommend and develop temporary works design solutions within delegated authority.
- Review and challenge design briefs, site assumptions, methodology inputs, and technical submissions.
- Define design limitations, controls, and hold points for temporary works within technical authority.
- Escalate matters outside technical authority, high-risk items, or departures from standards and approved arrangements.

Person specification**Essential qualifications**

- Degree in Civil Engineering, Structural Engineering, or a related engineering discipline.
- Membership of a relevant professional institution, or working towards professional membership.

Desirable qualifications

- Incorporated Engineer or Chartered Engineer status, or demonstrable progress towards this.
- Relevant temporary works training or specialist technical development.

Essential knowledge and experience

- Proven experience in temporary works design within civil engineering, structural engineering, specialist construction, or related environments.
- Strong understanding of temporary works principles, design risk, and construction-phase engineering.
- Knowledge of BS 5975 and recognised temporary works control processes.
- Experience producing and reviewing calculations, drawings, design briefs, and technical reports.
- Good understanding of construction methods, sequencing, site constraints, and operational delivery.
- Experience of working with multidisciplinary teams and managing temporary works interfaces.

Desirable knowledge and experience

- Experience in contractor-led design environments.
- Experience supporting tenders, pre-construction, and live project operations.
- Familiarity with excavation support, propping, formwork, falsework, working platforms, lifting arrangements, and temporary stability systems.
- Experience contributing to temporary works standards, governance, or assurance improvement.

Skills and behaviours

- Strong technical judgement and risk awareness.
- Clear and concise written and verbal communication.
- Practical problem-solving and sound decision-making.
- Strong attention to detail and commitment to accuracy.
- Ability to prioritise workload and respond to operational pressures.
- Collaborative style with credibility across engineering and site teams.
- Commitment to safety, compliance, quality, and continuous improvement.

KPIs / measures of success

- Quality, accuracy, and compliance of temporary works design outputs.
- Timeliness of responses to temporary works queries and design changes.
- Compliance with BS 5975 principles, group procedures, and checking requirements.
- Effectiveness in identifying and controlling temporary works risk.
- Contribution to safe project delivery and operational readiness.
- Positive feedback from Temporary Works Coordinators, project teams, and stakeholders.
- Contribution to standardisation, lessons learned, and engineering improvement.