

Job Description

Designer – Senior Engineer

Reports to

Technical Services Manager

Direct and Indirect Reports

Our Mackley Mission

“To be nationally recognised as an innovative leader throughout the civil engineering and construction industry through sustainable growth”

Job Purpose

Provide efficient, cost effective solutions and respond to all technical and design matters as required. This will include supporting the delivery of outline designs at tender stage, temporary works and permanent works designs at contract stage. Act as the interface between designers and clients and enable successful collaboration between all team members. To provide strategic and technical advice throughout the organisation, including product specifications and suitability, geotechnical site investigation, BIM modelling provision and development of innovative techniques. To provide guidance and supervision to less experienced design team members and supervise and manage external design support.

Accountability

Quality, Health, Safety & Environment

- Work to & within the Mackley company procedures, policies & regularly communicate with your line manager.
- Build strong working relationships with clients, both internal and external.
- Maintain compliance with relevant procedures & provision of documentation for Quality, Environmental & Health & Safety (CDM Regulations).
- Keep up to date with changing legislation & codes of practice to ensure compliance.
- Assess design risks with consideration in all designs of buildability, safety & environmental factors, maintenance.
- Ensure design information is of the right quality & keeps up to date with project timescales.
- Review & ensure the relevant company procedures are complied with & provide feedback on procedures as & when appropriate.

Stakeholders & Communication

- Liaise with external designers and procurement of permanent and temporary works designs including design scope, specification and review.
- Liaison with external clients, Principal Designers, Supervising Engineers, ensuring that all requirements are fulfilled & expectations are met.
- Maintain awareness, advise and promote procedures for CDE and BIM to meet expectations.
- Support the Managing Quantity Surveyor with contract disputes to mitigate the impact on-time delivery.
- As required, attend training sessions, conferences & meetings in line with our commitment to Investors in People.

Productivity

- Overseeing and approving the design of temporary and permanent works at tender stage and contract stage including provision of calculations, drawings, specifications and design process documentation to agreed timescales.
- Provide strategic & technical advice throughout the organisation, including product specifications and suitability, geotechnical site investigation and design costs
- Provide cost effective technical solutions.
- Producing working drawings using AutoCAD, Civils 3D, Revit & Navisworks.
- Assisting with the preparing of licensing applications.

Leadership

- Manage multiple projects.
- Promote a culture of integration, continuous improvement and use of best practice across the organisation.
- Supporting the less experienced members of the internal design team and mentoring when required.
- Advise on strategy & cost effectiveness of various methods of construction.
- Be proactive and influential in the success of the company.
- Ensure that BIM and our CDE is fully integrated in to all business processes.
- Keep up to date with advancements in design, digital technology and new software.

Key Result Areas

- **Time/efficiency** – Plan and deliver results to the agreed programme & timescales.
- **Client relationship** – Be an ambassador for the company & maintaining satisfied clients.
- **Quality** – Promote the right 1st time approach to the agreed specification and standards.
- **Development & Mentoring** – Development & mentoring of staff seeking professional qualification.
- **Leadership** – Be positive and lead by example. Embrace company objectives and deliver department goals.

Person Specification

Qualifications

- BSc/BEng or MSc/MEng in Civil Engineering or HND with significant experience
- Chartered Engineer or heading towards CEng (desirable)

Training

- Leadership training
- CDM Regulations
- Site Safety Plus- Site Manager Safety Training Scheme (SMSTS)
- Site Safety Plus- Temporary Works Coordinator
- Site Safety Plus- Site Environmental Awareness Training Scheme (desirable)
- Technical training in software and design standards as required
- Academically Qualified CSCS card
- Driving License

Skills & knowledge

- Technically competent in geotechnical and structural design
- Knowledge of compliance with health, safety & environmental legislation
- Commercial awareness (e.g. NEC3,4, JCT)
- A logical, organised & understanding individual who can deal responsively & make responsible decisions.
- Able to work at high concentration levels to ensure right 1st time'
- Can prioritise with good time management
- Strong analytical skills

Experience

- 5+ years' work experience in a design office or similar environment
- Design experience within a water, temporary works or geotechnical environment. Ideally including cofferdams, water control structures, working in soft ground, crane stability, flood defence works

Personal qualities

- A problem solver who enjoys a challenge and short timescales.
- A natural forward planner who is comfortable communicating with their colleagues and external companies
- Proven team player
- Resilient
- People management skills
- Enthusiastic & results focused
- Ability to find ways to improve own level of knowledge & skill by networking both within & outside the company.
- Is motivated to drive self-development using all available resources to achieve success

Technology skills

- Competent with AutoDesk software packages, Ideally; AutoCad, Civil 3D, Revit, Robot, Navisworks & Infracore
- Knowledge of B.I.M. (Building Information Modelling)
- IT Microsoft Office skills (including Word, Excel, PowerPoint & Access)
- Business Collaborator (desirable)

Relationships

Internal

Technical Services Manager
 Design team
 Contracts Team
 Estimating Procurement
 Commercial
 Plant

External

Clients
 Subcontractors
 Designers

Additional information

You will be expected to travel to various Mackley sites throughout the UK.

The Company may, from time to time, require you to undertake duties other than those outlined in this job description and/or to undertake work in other departments/sites to meet customer demands. Any changes to this job description will be discussed and agreed with you.
