



Job Description

Graduate Design Engineer

REPORTS TO: Design Manager

Position Overview:

This position is part of the Estimating and Design team, responsible for driving new business opportunities through the preparation of innovative design solutions, accurate cost estimates, and competitive tender proposals. The role focuses on delivering a range of piling disciplines that meet customer requirements while aligning with the Company's Sales and Commercial Strategy. The successful candidate will collaborate closely with internal stakeholders and clients to ensure proposals are technically sound, commercially viable, and delivered within agreed timelines.

You will be expected to review technical drawings to abstract and process the necessary information to produce tender and contract designs for multi-discipline piling solutions. You will be required to follow a project through with any design requirements as the project develops or progresses, with site visits as required along with supporting Operations with scheme delivery. You will need to be proficient in working with Microsoft Word, Excel, and PowerPoint and have some experience with AutoCAD.

You will be expected to have some site experience and be comfortable working in a site environment with an understanding of the Health & Safety requirements of being present on live construction sites.

This is a customer focused role that requires you to have the ability to engage with clients to determine their needs and articulate those requirements in order to provide a solution-based proposal.

Day-to-day activities will include reviewing architectural and engineering drawings to ascertain the piling requirement, plotting boreholes and establishing a ground model, and developing piling solutions using specialist software packages. The role will include designs for tenders which you will communicate to the Estimating Team, and contract designs which will involve writing Geotechnical Design Reports and developing CAD drawings.

Mandatory Skills:

- Be able to interpret architectural and engineering drawings and specifications to determine the scope of works.
- Check the tender requirements against the Company's governance procedure and accordance with the Company's Sales and Commercial Strategy to determine the most appropriate engineering design solution.
- Interpretation of Site Investigation/Ground Investigation reports to develop Ground Models, ascertaining appropriate geotechnical parameters.

- Prepare designs for the following piling solutions (not exhaustive) using the information provided by clients:
 - Cantilever Fully-Embedded Retaining Walls
 - Propped Fully-Embedded Retaining Walls
 - Bearing Piles
- In conjunction with the Estimating and Operations Team, conduct site inspections/visits for understanding, analysis of conditions, assessment of risk and identification of activities that may or may not be shown in the tender documents.
- Carry out site inspections/visits on live piling schemes to review design implementation and effectiveness.
- Liaise with Contractors and Consultants on an ongoing basis to determine piling requirements and to develop an appropriate piling solution.
- Comply with stated Company policies and procedures relating to Health and Safety legislation

Additional Business Development & Commercial Skills:

- Experience of working within the piling sector would be desirable but not essential.
- A market led approach to business, with a clear understanding of the process required to determine and prioritise the needs and goals of customers
- A confident and articulate communicator with experience of dealing with clients and building strong working relationships
- Ensuring the highest standards of quality, health and safety and environmental impact are maintained
- Be prepared to develop your own knowledge and professional status.
- Driven to achieve business targets and doing so through design and by innovation.

Essential Qualifications/Desired Work Experience:

- BEng/BSc or MEng/MSc in Civil Engineering/Geotechnical Engineering – or equivalent.

Additional Skills and Qualities:

- Extensive knowledge of and the ability to work to The Construction (Design and Management) Regulations 2015.
- Excellent maths/numerical acumen and the ability to manipulate data to determine trend.
- Excellent IT skills with advanced knowledge of key Microsoft applications and design software.
- Good problem-solving skills and the ability to pay close attention to detail.
- Excellent communication and presentation skills.
- An organised approach to work and the ability to meet deadlines.
- An awareness of relevant industry regulations and standards including Eurocode design principles.
- Drive, enthusiasm and the ability to work as a team and independently.
- Showing initiative to overcome challenges.
- Flexible work ethic and being a team player is critical

Hours and Environment:

Hybrid role with time split between the office and home with site visit to suit the needs of the business. Due to the nature of this role, employees are expected to be co-operative in working outside their normal hours as necessary to cope with varying situations and workloads.

Minimum 40 hrs per week as dictated to meet the needs of the business.