

Graduate Structural Engineer

Job Description

We have an exciting opportunity for a graduate structural engineer to join our team in Bristol. You will be able to develop your technical skills as part of the team, and work towards becoming a Chartered Engineer, with either the ICE or IStructE, through structural design and drawing of projects across the whole of the UK.

We are an equal opportunity employer and value diversity at our company. We do not discriminate and take positive steps to create an inclusive culture.

Reports to: Associate(s) and Director(s)

Key Tasks

Structural engineering

- Perform structural design and analysis calculations using governing codes and standards, engineering formulas, skills, and experience.
- Use computer-assisted engineering and design software and equipment to prepare engineering design documents.
- Produce structural layouts and details of projects using schematic layout by project engineer(s). May be assigned responsibility for schematic or conceptual layouts when suitably experienced.
- Provide drawings for own designs and produce sketches to incorporate in drawings by Technicians.
- Research design options and document findings for project engineer(s).
- Review sub-contractor drawings, under the supervision of an experienced engineer.
- Perform field activities, such as: record existing site ground conditions, collect samples, or record site measurements, under the supervision of an experienced engineer.
- Organize, draft, and coordinate technical documents, such as specifications and Health & Safety information.

Project management

- Discuss/agree internal project deadlines with your colleagues.
- Efficiently manage your workload – communicating early to line manager if deadlines are unachievable or clashing.
- Engage with team level resourcing meetings/discussions, and keep an appreciation of other team members' workload.
- Ensure that project is being completed within the Build Collective Quality Assurance framework.
- Maintain awareness of project scope, and report deviations or extensions to scope to project engineer promptly.
- May direct and supervise Technician's activities.
- May coordinate work with other disciplines such as architectural, mechanical, electrical, etc. under the supervision of the project engineer.
- May handle routine contract administration. under the supervision of the project engineer.

Technical expertise

- Keep up to date with the CPD requirements with the IStructE/ICE.
- Keep up to date with latest sustainability and technological developments in the industry.
- Explore new design concepts and develop quality, efficient solutions.
- Work towards your Chartership with the support of your mentor and colleagues regularly and systematically.

- Provide a quarterly summary of structural knowledge gained in a format that suits you (i.e. verbal presentation, written summary, video presentation, etc.).

Financial awareness

- Engage with regular review of project resourcing and budgets.
- Contribute towards the financial health of the company.

Education and Experience Requirements

- Bachelor/Masters of Science/Engineering in Civil and/or Structural Engineering (if Civil only, must demonstrate some structures specific knowledge through work experience or research project).
- Demonstrate progress towards Chartership with either ICE or IStructE.
- Working knowledge in design structural elements to Eurocodes.
- Ability to produce hand-drawn sketches is essential.
- Competence with use of Microsoft Office.
- Working knowledge of AutoCAD.
- Desirable: working knowledge of TEDDS, CADS or other structural analysis and design software
- Desirable: Awareness in the use of NBS specifications and software.

Person Description

- Must have a commitment to diversity and equality of opportunity, and to the good work-life balance and mental health of all team members.
- Honesty in your abilities and knowledge.
- Good attention to detail and pride in your work.
- Efficient in time management with good organisational skills and experience delivering projects in a fast-paced environment.
- Co-operation, flexibility, and adaptability suited to working on a wide variety of project types and sizes.
- Ability to work on own initiative as an individual, or as a team member, and knows the limits of your own responsibility/authority and when to defer to others.
- Self-motivated with the ability to enthuse and motivate others.
- Customer care skills, patience, and efficiency in dealing with business contacts and customers, by telephone and in person, in a warm and friendly manner.
- A commitment to developing and contributing to the growth and health of the business.

Job Training

Training is an important part of everyone's development and progression. Build Collective are committed to training within the practice. We anticipate all employees will have the same drive towards improving their technical and professional qualifications.

Any cost of external training which is relevant to a job role will be funded by Build Collective. Staff leaving within 1 year of the training will be subject to 100% of course to be paid back. Refer to Training Policy which will be agreed prior to commencement of any training or training payments being made.