

Role summary

We are looking for an Environmental Design Analyst with expertise in Carbon and Life Cycle Assessment to join our growing Environmental Engineering team. You will conduct and lead Life Cycle Analysis (LCA) and Whole Lifecycle Carbon assessments of the design projects in collaboration with the architectural, structural and building services engineering disciplines. To contribute to the Practice's carbon assessments of the projects through the design process.

Role definition

Job Title: Environmental Design Analyst (Carbon and Life Cycle Assessment)

Reporting to: Partner on a day-to-day basis and ultimately to the Senior Partner

Responsibilities

- Conduct and lead Life Cycle Analysis (LCA) and Whole Lifecycle Carbon assessments of the design projects in collaboration with the architectural, structural and building services engineering disciplines
- Conduct research and carry out calculations on embodied carbon and carbon offset aspects of the built environment
- Produce Whole Lifecycle Carbon Assessments (WLC) / Statements to support planning applications
- Develop with clients and internal teams low life-cycle carbon solutions in shaping architectural form and guiding the low/zero carbon design
- Work with cost consultant to undertake cost benefit analysis of different sustainable strategies related to carbon and carbon reduction/offset schemes
- Undertake rapid estimation of building quantities
- Communicate, liaise and negotiate both internally and externally to facilitate all aspects of the project work
- Present analysis results in the form of reports and presentation to clients and design teams internally
- Thorough knowledge of and compliance with Foster + Partners procedures and standards.
- Contribute, or otherwise assist, as required.

Qualities and skills required

The ideal candidate will have previous experience as a carbon assessor within the construction industry. They will also have experience in undertaking Life Cycle Assessments from the design to the completion of buildings.

- Able to demonstrate ability to undertake the above responsibilities
- Legally able to work in the country in which the position is based
- Demonstrated experience in a related field and previous work in the built environment
- Chartered or Registered to a professional board (eg. CIBSE Low Carbon Consultant, C.Env, C.Eng, MCIBSE, MIE, MIEMA...), or working towards this goal

- Experience in carrying out Life Cycle Assessment and/ or Whole lifecycle carbon assessments for buildings
- Experience in embodied carbon calculations in the construction industry in UK and internationally
- Experience in carbon offset strategies and programmes in the UK and international context
- Advanced proficiency in using at least one of the following tools: One Click LCA or eTool software to support the delivery of client's net zero carbon aspirations.
- Advanced excel capabilities to conduct complex calculations
- Good knowledge of using Revit
- Detailed understanding of relevant planning guidance, ISO standards, and other methodologies relating to LCA, carbon footprint, and EPDs
- A passion for sustainability
- Experience in dealing with sustainability reports for planning and a good knowledge of London and UK-wide planning policy relevant to sustainability
- Good understanding of sustainability strategies related to waste management, materials and construction technics
- Excellent knowledge of circular economy principles and strategies in construction
- Understanding of Environmental Assessment procedures (BREEAM, LEED etc) and the relevant to the role credits
- Excellent project management and organisational skills
- Good communication and presentation skills
- Ability to disseminate research knowledge to the Practice
- Able to work under pressure and to tight deadlines
- Able to manage sensitive and sometimes confidential information
- Self-motivated and able to take responsibility
- Able to manage and prioritise tasks and time efficiently
- Good interpersonal skills and able to work independently and as part of an effective team
- Flexible attitude
- Able to build relationships at all levels, internally and externally

Desirable

- Knowledge and experience in embodied carbon calculation for MEPF systems
- Very Good Graphic skills
- Proficient in database processing and BIM information extraction
- Comprehensive knowledge of the construction process, environmental impacts and the business case for sustainability
- Excellent use of Revit
- Experience in working in the sustainability consultancy sector will be valuable
- Professional accreditation preferred: LEED, BREEAM, WELL, etc.
- Experience working on strategic advisory assignments and helping clients deliver their ESG reporting targets.
- Active interest in industry initiatives or events such as LETI etc.
- Experience and passion for tool development

This description reflects the core activities of the role but is not intended to be all-inclusive and other duties within the group/department may be required in addition

to changes in the emphasis of duties as required from time to time. There is a requirement for the post holder to recognise this and adopt a flexible approach to work. Job descriptions will be reviewed regularly and where necessary revised in accordance with organisational needs. Any major changes will be discussed with the post holder.

December 21