

## Role Definition

The Sustainability Group offers a wide range of skills to our projects at national, regional, city, infrastructure, masterplan, building and product scale. As a Postgraduate with circular economy-based experience in both quantitative and qualitative project analysis and advocacy, supply chain procurement, construction industry practices and BIM (or similar) you will develop techniques and viable, practical, and evidence-based sustainable solutions for project teams. Your work will be informed by policy context analysis, Whole Life Impact, Innovative Technologies, sustainable materials sourcing, and Integrated Digital Design techniques. You will report to the Leader of the Climate Change Team within the Sustainability Group and ultimately to the Head of Sustainability

Job title: Sustainability Engineer

Reporting to: Leader of Climate Change Team on a day to day basis and ultimately to the Head of Sustainability

## Responsibilities

- Using circular economy and LCA techniques to assess and advise on sustainable design, manufacture, procurement, construction/de-construction and operation of the project
- To assist in developing a database, and knowledge base of the supply chain to assist Whole Life Cycle selection of low impact materials for projects and incorporating resource circularity principles where applicable.
- To apply the database of Whole Life Cycle Impact information, and tools, to the analysis of projects.
- Working with BIM (Revit) software (and plug-ins), to extract quantities for digital analysis and contribute to development and visualize the output.
- Developing numerical analysis using Cost Data, Ecological, and Carbon Footprint and similar techniques and software.
- To conduct research into existing and emerging sustainable policy, trends, procurement and technologies.
- To support in co-ordination of sustainability issues for the internal and/or external design team
- To manage the use of LEED, BREEAM and similar assessments on projects and produce trend analysis to assist other projects.
- Producing convincing visual outputs and reports to explain and advocate sustainable design direction and respond to design deliverable
- To organise information in a logical way to communicate effectively to design teams, suppliers and contractors.
- To seek, and record evidence of, continuing professional development (CPD) in accordance with the requirements of a relevant professional Institution
- To have thorough knowledge of and compliance with Foster + Partners procedures and standards
- To contribute, or otherwise assist, as required
- Equity, diversity & inclusion (EDI) is a core priority. To support and champion the embedding of this focus as a collective workforce responsibility, EDI should be integrated, where relevant, into all workstreams

## Qualities & skills required

### Essential

- Able to demonstrate ability to undertake the above responsibilities
- Legally able to work in the country in which the position is based
- Understanding of Circular Economy principles and techniques

- Understanding of Whole Life Impact and Lifecycle Value appraisal to projects
- Understanding how to develop critical relationships (technical and organizational) along the supply chain
- Familiarity with RICS and other industry Methods of Measurement
- Basic understanding of international climate policy; including but not limited to the Paris Climate Agreement and the UN Sustainable Development Goals
- Understanding of BIM (Revit) and using it to construct and quantify projects and assist in complex integration of systems
- Ability to communicate complex technical information in a non-technical manner
- Being inventive, resourceful, pro-active and enthusiastic about sustainability in design
- Able to manage sensitive and confidential information
- Excellent organisational skills
- Self-motivated and able to take responsibility
- Able to demonstrate initiative and a proactive approach to daily tasks
- Resilient to cope with conflicting demands, able to prioritize duties and work effectively under pressure and meet deadlines
- Good interpersonal skills and able to work independently and as part of an effective team
- Able to build relationships at all levels, internally and externally
- A flexible and open attitude towards new ways of working and commitment to independent, lifelong learning
- Qualified to Master's Degree level in relevant subject areas
- Able to work as part of an effective team assisting and supporting team members

### Desirable

- LEED AP within 6 months of commencement
- Ability to use InDesign, Illustrator, PowerBI packages (or similar)

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.