Role Summary

Role Definition

Job title: Senior Water and Infrastructure Engineer

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

Responsibilities

• To be design lead, manage, and co-ordinate water infrastructure over a wide range of large scale projects
• To act as a technical expert within the field, providing research, data, design and coordination to support sustainable and innovative water strategies and infrastructure design.
• To contribute to the design process and co-ordinate environmental engineering activities relating to the project including coordination with engineering sub-consultants and other disciplines.
• To fulfil the Practice’s overall objective in producing first class sustainable design on time and on budget
• To negotiate with utility companies and water authorities to achieve project targets and objectives
• 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.
• Thorough knowledge of and compliance with F+P procedures and standards

Qualities and Skills required

• Able to demonstrate ability to undertake the above responsibilities
• Legally able to work in the country in which the position is based
• Track record of designing and delivering large scale infrastructure / master planning projects
• Qualified as a Chartered Engineer with EC-UK or FEANI member organization, or actively working towards the final stages of applying.
• LEED, or other international recognised benchmarking standards, qualified or having working familiarity with environmental assessment methods appropriate to large scale development and infrastructure design.
• Familiarity with international design standards including ASHRAE, and latest water initiatives including Sponge City (PRC) and Sustainable Drainage Systems (SuDS-UK)
• In-depth technical knowledge and experience (in order of priority):
  o Large scale water distribution including potable and fire ains distribution
  o Water treatment including grey and black water treatment and sustainable water strategies
  o Smart city infrastructure design
  o City scale low carbon energy strategy and infrastructure
  o District energy systems including district cooling and heating (LTHW/MTHW/steam) networks
  o Large scale renewable technology installations; e.g. photovoltaics, fuel cells
  o High and medium voltage power generation and distribution and system resilience
• Broad understanding of other engineering disciplines engaged in the built environment
• Expert knowledge in chosen field of international best practice, benchmarking and KPIs, and innovation relating to large scale development and infrastructure design.
• Applied use of specialist technical software within their area of expertise/field
• Excellent organisational skills
• Able to manage sensitive and sometimes confidential information
• Self motivated and able to take responsibility
• Able to demonstrate initiative and a proactive approach to daily tasks
• Good interpersonal skills and able to work independently and as part of an effective team
• Flexible attitude
• Able to build good relationships at all levels, internally and externally
• Resilient to cope with conflicting demands, able to prioritise duties and work effectively under pressure.
• Able to work as part of an effective team assisting and supporting team members

**Desirable**

• A wide range, in scale and typology, of International project experience
• Ability to use some of the following software applications: Energy Plus, Energy Pro, IES, Amtech, Microsoft ‘Office' suite, Adobe Creative Suite
• Language skills in Mandarin, Cantonese or mainland European languages

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.