

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):
 - Large scale water distribution including potable and fire mains distribution
 - Water treatment including grey and black water treatment and sustainable water strategies
 - Smart city infrastructure design
 - City scale low carbon energy strategy and infrastructure
 - District energy systems including district cooling and heating (LTHW/MTHW/steam) networks
 - Large scale renewable technology installations; e.g. photovoltaics, fuel cells
 - 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.