

Role Definition

Job title: Senior Fire Engineer

Reporting to: Head of Fire Safety on a day to day basis and ultimately to the Head of Technical Design.

Responsibilities

- As part of the Fire Safety Team, you will help drive a proactive, holistic, and risk-based design methodology within the Architectural Studios and Engineering Groups.
- Provide support to the Architectural Studios and Engineering Groups and use creativity to assist in the development of solutions which fulfil the project fire safety objectives.
- Build and maintain strong positive relationships throughout the organisation.
- Contribute to the identification and addressing of fire-related constraints and opportunities for projects throughout their lifecycle using evidence-based methods.
- Cultivate and propagate an awareness of the impact of the fire safety design on construction, installation, commissioning, and maintenance.
- Contribute to the growth and promotion of the Fire Safety Team within F+P.
- Remain abreast of developments in national and international fire-related legislation, fire technologies, and materials and products – and feed this back to the wider team.
- Develop and describe fire safety design options for further discussion with the team.
- Assist in providing fire safety and fire engineering advice during the undertaking of Technical Design Reviews and follow up on requests for further guidance, information, or advice.
- Attend meetings as required; in some cases international travel may be necessary.
- Give guidance and assistance on appropriate fire engineering approaches office-wide and, where applicable, interact with externally appointed fire engineers.
- Assist in the update and maintenance of the relevant F+P Design Guides.
- Maintain and provide records of advice given.
- Maintain a record and evidence of professional development and review this with the Head of Fire Safety.
- Identify personal and Fire Safety Team training needs, stay up-to-date regarding training opportunities, and feed this back to the wider team.
- Review fire engineering reports/studies/strategies where provided by external consultants..
- To contribute, or otherwise assist, as required
- Thorough knowledge and compliance with Foster + Partners procedures and standards
- 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 and 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.
- 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 [while always remaining calm and professional]
- Able to work as part of an effective team assisting and supporting team members
- Chartered or working towards Chartered Engineer status with a relevant Institution.
- Over 4 years' experience in a fire engineering or related discipline role.
- Solid proven experience of applying engineering methods to safety. For example, qualitative and quantitative risk assessment, probabilistic risk analysis, and detailed deterministic analysis.
- Evidence of a good design understanding.
- Willingness to expand knowledge into other disciplines related to fire safety and fire engineering.
- Ability to use a variety of media in the development and documentation of a design project.
- Ability to take initiative in response to direction or instruction.
- Evidence of the ability to understand design decisions taken by others.
- Ability to manage own time to work well under pressure and meet expected timeframes.
- Experience with a range of international regulatory and guidance frameworks.
- Demonstrated good network with the fire science, fire engineering, and wider community.
- Proficient in the use of the following: Word, Excel, Outlook, PowerPoint,

Desirable

- Experience in the use of advanced engineering methods. For example, CFD-based modelling, FEA analysis, quantitative probabilistic/reliability analysis.

This description reflects the core activities of the role. It 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.