

Role summary

The role is a Fire Engineer within the Fire Safety Team of Foster + Partners. The Fire Safety Team is a fire safety, engineering and science team which provides fire safety leadership and advice cross-functionally within Foster + Partners. The team's mission is to assist in the delivery of adequate and inclusive fire safety – by constantly learning, championing, and driving evidence-based fire safety design and science.

You will be reporting directly to the Head of Fire Safety and will be expected to work with other members of the team on a day-by-day basis.

The team is relatively new, making this is an exciting opportunity to join a growing multi-disciplinary internal team, with opportunities to inform and drive team development.

Role definition

Job Title: Fire Engineer

Reporting to: Head of Fire Safety

Responsibilities

- Attending and supporting collaborative meetings and workshops with internal and external stakeholders – assisting in providing fire safety guidance, information, and recommendations.
- Reviewing design information, for example, drawings, presentations, and specifications, and providing fire safety comment and advice.
- Assisting in the generating, issuing, and distributing of memorandums, technical notes, and presentations on critical fire safety issues which may impact projects or the wider organisation.
- Carrying out and assisting research into the fire safety implications of new technologies, materials, approaches, and regulation –feeding back insights to applicable stakeholders in a clear manner and suggesting any relevant recommendations.
- Carrying out and assisting qualitative and/or quantitative risk assessments and presenting to stakeholders, to enable informed decision-making.
- Cultivating, understanding, and maintaining a trusted internal network across the organisation.
- Generating fire safety strategy reports for projects where Foster + Partners are the project fire engineer.
- Assisting in the updating and maintaining of internal best practice guidance and documentation.
- Assisting in the generating of proposals, as required, for design or research services.
- Carrying out fire safety and science research, as required, for multi-organisational projects.
- Organising and facilitating continuing professional development events within the organisation.
- Keeping accurate and up-to-date notes in the Fire Safety Team project tracker.
- Managing your own workload, tasks, and time to hit relevant deadlines and meet stakeholder expectations.

- Identifying personal training needs and staying up to date with relevant knowledge.
- Contributing or otherwise assisting, as required, the Head of Fire Safety or Senior Partner.

Qualities and skills required

- Evidence of strong professional conduct; including ethical working under pressure.
- Proven ability to apply rigorous and accurate engineering approaches to safety. For example, qualitative and quantitative risk assessment, probabilistic and deterministic analysis.
- Proven ability to foster and maintain strong cooperative relationships across a complex organisational landscape.
- Willingness to nurture knowledge of other disciplines related to fire safety and fire engineering.
- Good interpersonal skills, proven ability to interact with and adapt to a diverse range of people, and the ability to work well in a team.
- Evidence of working towards Chartered Engineer registration with a relevant professional engineering institution.
- Over 3 years of experience in fire engineering or related discipline role.
- Legally able to work in the country in which the position is based.

Desirable

- Experience of structural fire engineering, façade fire engineering, and/or fire experimentation.
- Experience in the use of advanced engineering methods. For example, CFD-based modelling, FEA analysis, quantitative probabilistic/reliability analysis.
- Experience with the use of Matlab, Python, R, or similar, to carry out data analysis, automation, and/or model development.
- Experience with BIM, Rhino, Grasshopper or similar to carry out parametric design and multi-objective optimisation.
- Experience with a range of international regulatory and guidance frameworks (e.g. US, China, UAE).
- Working knowledge of the Chinese language.

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.

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