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Graduate Fire Engineer - UK Wide

Reference: 1361

Locations: Any available location:, Bristol, Cardiff, Edinburgh, Glasgow, Leeds, London, Manchester, Sheffield, Solihull

Job Type: Graduates

Closing Date: 20 November 2018

At Arup, we design and deliver ground-breaking iconic buildings, infrastructure design, and specialist technical services. Independent in ownership and spirit, we're a global firm of designers, planners, engineers, consultants and technical experts who use our skills to make a positive difference in the world. Our people are at the heart of our business and we pride ourselves in ensuring that our people embrace the values of the company, as set out by our founder Ove Arup in 1970 and that still hold true today, when dealing with our colleagues and our clients.

Fire engineering is a fundamental component of multidisciplinary design in the built environment. At Arup Fire, we aim to be at the forefront and leading edge of our industry. Arup specialists work closely with clients to help them define their goals and objectives. Our innovative solutions go beyond compliance to include social, economic and environmental goals, as well as protection of people, assets, reputation and operation. Through our work, we believe we shape a safer world.

Our offered services are based on engineering fundamentals, founded through research and development. Our strong links with academia ensure we stay at the cutting edge of fire safety design. This allows us to innovate through extensive knowledge of fire dynamics, human behaviour, structural behaviour and risk, each essential to fire safety design in the built environment.

Fire engineering does not stop once the design is complete. Arup has a long track record of providing practical advice during tender, construction, commissioning and handover in order to maintain the quality and integrity of the fire strategy into the operational stage of the building. We believe this 'Total Fire Engineering' approach to be essential to the success of all projects.

Our work involves providing fire safety advice in several sectors, such as: residential, rail, tunnels, education, industrial and commercial. Graduate fire engineers are immediately integrated into design teams and start contributing to the delivery of projects from day one. Examples of projects that graduate fire engineers have worked on in recent years include the Shard, Crossrail, Birmingham New Street station, the Tate Modern and Copenhagen arena. Our 180-plus fire engineers are based in around 30 locations worldwide, with over 95 of these in the UK. Drawing on our global presence, we share knowledge, information and best practice across sectors and geographies, ensuring we deliver efficient, cost-effective results to our clients anywhere in the world.

Are you interested in finding out more about the type of work we do and the projects we work on?

Please find a video of Barbara Lane, Arup's leading fire expert, discussing her career and work on Terminal 2 at the Dublin Airport:

http://video.arup.com/?v=1_bjgkzrcw

About the role

Right now, we're looking for Graduate Fire Engineers to join our team of bright professionals across several of our UK offices. From your first day, you'll join an unrivalled community of experts, where everyone is supported in their career path and encouraged to work towards a professional qualification. You'll help us to deliver effective and professional services for a range of varied and high-profile clients. While you will have a great deal of responsibility from day one, we'll give you the chance to take on more as you progress and broaden your skills. Your role will be to develop expertise as a fire engineering consultant and deal with all aspects of fire safety engineering. This will cover preparing fire strategies in co-ordination with the engineering design team to the auditing of fire safety management and protection measures in existing buildings/facilities.

You will liaise with external designers and other construction and building professionals on a wide range of projects. You will gain a thorough understanding of the role of a fire engineering consultant; experience the use of software design programmes and visit sites to monitor the implementation of fire strategies. You will be mentored with the aim of attaining the goal of becoming a Chartered Engineer.

Does this sound like you?

We're looking for students with curiosity, enthusiasm, a personal drive to learn and a desire to challenge the norm. If you can combine these skills with an understanding of (or willingness to learn about) the Fire Engineering sector and a desire to deliver excellent services for clients, we'd like to hear from you. We're looking for the following qualifications, attributes and skills:

Qualifications

- Master's or Bachelor's degree in a relevant subject necessary to obtain engineering chartership, such as Fire Engineering, Civil Engineering, Structural Engineering, Electrical Engineering, Chemical Engineering, Mechanical Engineering, Architectural Engineering, Building Services Engineering, Public Health Engineering, Applied Mathematics or other relevant degrees. Preferably a Masters in Fire Engineering with a prediction of a 2:1 or higher or equivalent
- We will consider Architectural degrees with relevant fire safety modules. However, the focus of the role will be in the engineering discipline as opposed to pure design
- Strong results in relevant modules (preferably 2:1 or higher)

- Additional qualifications such as a PhD in fire safety related topics are a distinct advantage
- Good A Levels (or equivalent qualifications) in Mathematics, Physics, Chemistry, Sciences (Grade C or higher) are a distinctive advantage.

Skills

- Excellent written English, and be able to provide evidence/example of own work, if requested
- Excellent verbal communication skills
- Excellent presentation skills
- Understanding of different perspectives of different disciplines / stakeholders
- Strong numerical skills
- Proficient in the use of Microsoft Word and Excel
- Desirable skills:
 - Experience with VBA or other programming languages
 - Experience reviewing drawings of buildings in 2D and 3D
 - Experience using sketching tools such as SketchUp
 - Experience with Autodesk software such as Revit, Navisworks or AutoCAD

Behaviours

- Be inspired to learn and try new experiences
- Be motivated to become professionally qualified as a chartered fire engineer
- Be planned and organised in your approach to work and meeting deadlines
- Demonstrate a creative approach to problem solving
- Demonstrate effective collaboration as part of a team, in addition to the aptitude to work on your own initiative, be inquisitive and proactive
- Be flexible to the needs of the business, and changes to project plans
- Be dedicated to the delivery of projects, and the development of the team and business as a whole
- We would be interested to hear of any community engagement/charity/voluntary work undertaken

What will we offer in return?

There are infinite possibilities when you join Arup. You will receive all the opportunities that come with a challenging, fulfilling career, including a competitive salary and welcome bonus, profit share scheme, a flexible benefits fund and generous pension.

What else can you expect?

- An interesting and varied workload where you'll make a tangible difference to the world, whilst making the most of your skills
- A collaborative, intelligent and friendly team in an excellent working environment
- The support you need to develop your career through professional accreditation and training.

Interested in finding out more? If so, here's some additional information.

Roles will be available in the following office locations: Bristol, Cardiff, Edinburgh, Glasgow, Leeds, London, Manchester, Sheffield and Solihull.

The deadline for applications is 20th November 2018. Our Graduate Welcome and Skills Week will take place in September 2019. Although we can be flexible on start dates we would hope that the successful candidate will join their peers for this event.

Please note that we are able to offer Tier 2 visa sponsorship for this role.

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