

## **Job Title: Graduate Fire Engineer, NY – 2020**

**Excellent opportunity for a Graduate Fire Engineer to join our NY office in 2020!**

**At BuroHappold, we're passionate about great engineering. And always have been.**

We are a holistic engineering practice, where engineers are more than just human calculators, they're helpers in shaping solutions, making the world a better place to live in.

When it comes to your graduate career, don't opt for the obvious. Don't accept the average. Expect the best and work with the best.

**We make the vision viable.**

### **What is Fire Engineering?**

Every building presents unique fire safety challenges. To fully address life safety, property protection and design aspirations, the scheme needs a unique, holistic, creative approach to developing a simple, yet robust, fire safety solution.

Our involvement includes the full scope of each project, from concept to completion, and further, to occupation and continued operational management. Our clients find this level of continued engagement reassuring.

We listen and consult to fully understand the design aspirations for your project, and we will facilitate these through imaginative and innovative fire engineering techniques, often working beyond the boundaries of prescriptive code guidance.

### **What sort of projects would I work on?**

[Louvre](#), Abu Dhabi

[Fashion Institute of Technology \(FIT\)](#), New York

[Carnegie Mellon University, Tepper Quad Project](#), Pittsburgh

[University of Cincinnati, College of Business](#), Cincinnati

American Museum of Natural History, New York

### **What would I do?**

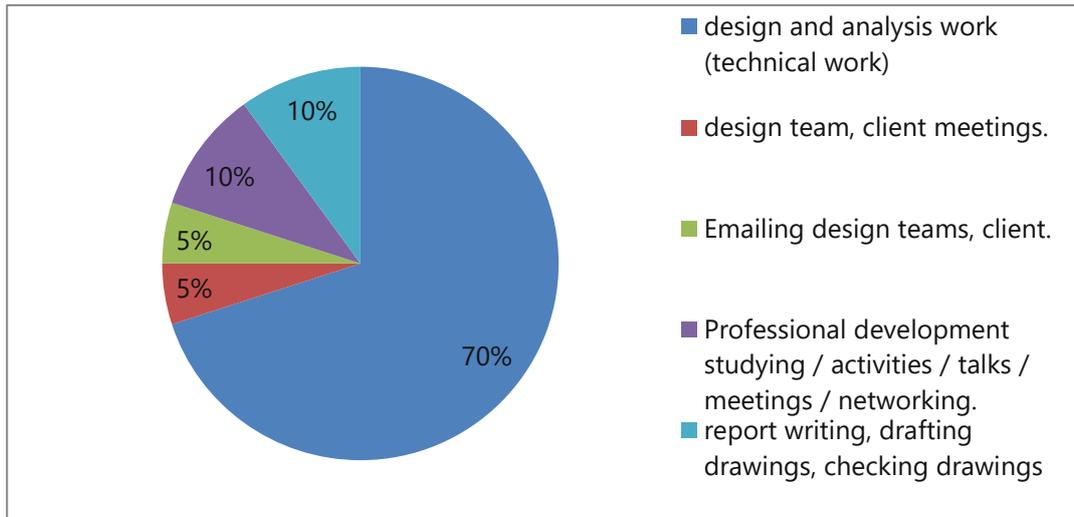
- Develop expertise in delivering fire safety engineering solutions in a multi-disciplinary environment with solid experience in developing fire strategies, undertaking engineering analysis and applying performance based designs.
- Communicate and present technical solutions to a variety of clients and stakeholders.
- Demonstrate excellent consultancy skills; Good communication and experience in dealing with difficult situations, negotiation and understanding the differing needs of our clients and within stakeholder groups.
- Liaise with approval authorities on fire safety designs and proposals
- Build knowledge to be able to identify appropriate fixed fire protection systems, i.e. automatic fire detection and/or suppression to support fire engineering design solutions.
- Carry out and review fire engineering calculations including smoke modelling and evacuation analysis from simple hand calculations to complex 3D computational modelling
- Work with other members of the team to understand and apply fire safety legislation and design guidance in the US and internationally as part of global project delivery.
- Ensure team members are kept informed of important and relevant service/design decisions.

### **What are the qualifications to be considered for this role?**

- Bachelor's Degree in Fire Protection, Mechanical, Chemical or Civil Engineering
- Master's Degree in Fire Protection preferred
- Coursework in Fire Dynamics, Evaluation, Building Codes, and Fire Protection Systems
- Internship experience at engineering related firm
- Proven interest in the built environment
- Ability to communicate thoughts and technical ideas in an accessible manner
- Eagerness to learn and work as part of a multidisciplinary team

### What would a 'typical' day look like?

No two days are the same, but as an overview...



### What is life really like?

*'It is refreshing to actually work on something tangible and have key responsibilities. It is really inspiring to be involved in the design for all these fascinating buildings that later I could show and say, I helped to make this'.*



Louvre Abu Dhabi

**Tell me more about the New York office.**

In 1985 the New York office was established as our first U.S. location. Over the last 30 years our presence has grown in the metro area and beyond, and we are proud to be part of some of the city's most iconic projects, including the High Line and the National 9/11 Memorial Pavilion.

The New York office offers a wide array of services covering projects from building scale through site infrastructure and city planning. Services offered include structural engineering, building services, lighting, specialty analytics, master planning, infrastructure, economics, strategic and urban planning, and project management. Teams specialize in delivering a service to clients on a sector basis focusing on commercial buildings, sports facilities and stadia, higher education organizations, medical and research facilities, public buildings, transportation hubs, performance and entertainment venues, and urban development.

Our engineers and consultants work with clients based in the New York City Metro area, along the east coast and around the country, and service a wide array of international projects both directly from New York and in partnership with our network of global offices.

Interested and qualified candidates please apply online on our website at:

<https://www.burohappold.com/careers/>