Fire Engineer

**Start Here, Go Anywhere!**

Arup is seeking fire protection engineering interns to join our Fire Engineering team that will contribute to prescriptive and performance-based design strategies for local, regional, and global projects while learning and enhancing their skillset. We are looking for self-initiating problem-solvers who can work as part of a team to apply a wide range of fire engineering technical skills. Daily tasks may include assisting with fire and dynamic egress modeling, performing structural fire calculations, and assisting senior engineers with the development of fire and life safety strategies. Arup's Fire Engineering team delivers solutions for some of the world’s most complex problems.

**About Arup:**
At Arup we’re dedicated to sustainable development and to do socially useful work that has meaning. Our purpose, shared values and collaborative approach has set us apart for over 75 years, guiding how we shape a better world.

We solve the world's most complex problems and deliver what seems impossible, with curiosity and creativity. We’re a thriving and growing organisation which offers you many possibilities to shape a better world, and your future.

**Qualified professionals will have:**
- Pursuing a bachelor’s degree in Fire Protection, Mechanical, Chemical or Civil Engineering.
- Professional demeanor
- Excellent written and verbal communication skills
- Skills in planning and organizing.
- Attitude of taking initiative, enthusiasm, eagerness to learn
- Must not require sponsorship, now or in the future to be considered for this role

**Notable Projects:**
- International African American Museum
- UCSF Medical Center at Mission Bay
- TSX Broadway (Times Sq, Manhattan)
- UPMC Mercy Vision and Rehabilitation
- Mizkan America
- SLAC National Accelerator Laboratory

**Your responsibilities will involve:**
- Assist with fire modeling
- Assist with dynamic egress modeling
- Assist with the development of structural fire calculations
- Assist with the development of fire safety strategies for special hazards
- Contribute to the development of prescriptive and performance-based design strategies
- Provide consulting for life safety, building, and fire code compliance
- Assist senior engineers to help clients to incorporate fire and life safety strategy concepts into the design and review drawings for conformance with the agreed strategy
- Perform smoke control analysis
- Assist senior engineers on project site visits and communicate with architects, contractors and consulting teams
- Participate in internal team meetings and external client meetings
- Adapt to working with multiple teams, across multiple offices in a multi-discipline environment
What we offer you
Each year, Arup seeks out students from around the world for our summer internship program. We look for diverse students with inquisitive minds and the desire to challenge themselves. Our interns learn quickly, are natural problem solvers and thrive on innovation. You will work alongside talented professionals and contribute to the success of real projects. In addition to on-the-job experience, we offer learning sessions with top leadership, site visits to local projects and social events.

Flexible Working
We believe that flexible arrangements create a more inclusive way of working that supports our diversity and the wellbeing of our people. Options for remote work are available throughout the program.

Different people, shared values
Our internal employee networks support our inclusive culture – from race, ethnicity and cross-cultural working to gender, LGBTQ+ and disability – we aim to create a space for you to express yourself and make a positive difference - Discover more about life at Arup at www.arup.com/careers/your-life-at-arup.

Arup is an equal opportunity employer, and all qualified applicants will receive consideration without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, protected veteran status, spouse of protected veteran, or disability.

Click here to apply to our Fire Engineering Internship roles.