



# HALLIWELL

## DR. NADIA MOFIDI

PRINCIPAL – UK & EU

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### BIOGRAPHY

Dr. Nadia Mofidi is a Chartered Engineer with an extensive 16+ year track record in the dynamic field of fire safety. She holds a Ph.D. in Fire Science, an MSc in Fire Protection Engineering, and a BSc in Mechanical Engineering. She possesses a diverse background, with expertise in fire engineering design within the built environment and the energy sector, coupled with active participation in multiple pioneering research projects in wildfire science and climate change. Nadia is currently Head of Halliwell Fire Research, UK & EU, and holds visiting positions as a Visiting Lecturer at California Polytechnic State University and as a Visiting Researcher at University College London.

After obtaining her Mechanical Engineering degree, Nadia started her professional journey as a Fire Protection Engineer, ascending through various roles in engineering consultancies across Iran, USA, UK, and Japan. She pursued MSc and PhD in Fire Protection Engineering and Fire Science, contributing significantly to research in wildfire behaviour, turbulent diffusion fire dynamics. During her sabbatical in Japan in 2023, she conducted specialized research on timber design and fire safety, establishing valuable connections with the Japanese fire engineering industry. Her standing in the field is underscored by professional memberships, awards, and recognition including being endorsed by the Royal Academy of Engineering as Global Promise in Fire Safety.

### QUALIFICATIONS

PhD (Fire Science-Wildfire), University College London, 2024

MSc (Fire Protection Engineering), Worcester Polytechnic Institute, USA, 2019

BSc (Mechanical Engineering), Shahid Rajaee University, Iran, 2009

### INDUSTRY CERTIFICATIONS, LICENSES AND MEMBERSHIPS

- Fellow of Institution of Mechanical Engineers (FIMechE)
- Chartered Engineer of UK Engineering Council (CEng)
- Member of Institution of Fire Engineers (MIFireE)
- Member of the Society of Fire Protection Engineers (SFPE International)
- Member of the Council on Tall Buildings and Urban Habitat (CTBUH)
- Certified Expert Witness by Cardiff University (Bond Solon)
- External examiner in Birmingham City University

### PROFESSIONAL EXPERIENCE

- Principal | Head of Halliwell Fire Research UK & EU
- Visiting Lecturer in Wildland and WUI Fire Mitigation | California Polytechnic State University

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- Visiting Researcher in Civil and Environmental Engineering | University College London
- Technical Director – Research and Innovation | Hydrock (UK)
- Senior Fire Engineer (Associate Partner) | Foster + Partners (UK)
- Researcher | Oskar Brands (Startup, USA)
- Fire Engineer | Engineering Planning and Management (EPM, USA)
- Teaching & Lab Assistant | Worcester Polytechnic Institute (USA)
- Technical Lead and Project Manager | Narfoamkar Co. (Iran)

### REPRESENTATIVE ASSIGNMENTS

#### Built Environment Expertise

Dr. Mofidi brings comprehensive international fire safety expertise across all phases of building projects, from initial design through post-occupancy compliance and remediation. Her specializations encompass critical areas of contemporary fire engineering practice for a variety of building use and occupancies including residential, commercial, educational, defense, correctional facilities, and hospitals.

#### External Wall Assessment

Dr. Mofidi has extensive experience in post-Grenfell regulatory compliance, conducting detailed fire risk assessments of external wall systems, cavity barriers, and building envelope fire performance. She is also proficient in BS 8414 testing protocols and interpretation and developing remediation strategies for low to high-rise residential and mixed-use buildings.

In addition, Dr. Mofidi has experience of working as an in-house fire safety consultant at one of the world's most renowned architectural firms, Foster + Partners, and possesses extensive experience in the design process of complex external wall systems for high-rise buildings. She has also developed the report template for FRAEW (Fire Risk Appraisal of External Walls) as per PAS 9980 and has authored and reviewed over 60 reports on external walls and she trained numerous engineers in this complex area of practice.

#### Fire Protection System Design & Integration

Dr. Mofidi has comprehensive expertise in specifying fire protection systems including conventional and addressable fire detection and alarm systems, detail design of automatic suppression systems, water mist, gaseous suppression systems, and specialized industrial fire suppression solutions. Her experience spans from conceptual design through performance-based engineering analysis and system optimization.

#### Building Regulation Compliance

Dr. Mofidi has deep knowledge of the UK Building Regulations and statutory guidance as well as international fire codes, and emerging regulatory frameworks. She has a proven track record in navigating complex approval processes, preparing fire safety strategies, and liaising with Building Control Bodies, and Fire and Rescue Services.

#### Design Consultancy & Performance-Based Engineering

Dr. Mofidi has led design teams in developing innovative fire safety solutions using performance-based methodologies, computational fire modelling (CFD analysis), and risk assessment frameworks. Her experience includes large-scale commercial developments, industrial facilities, heritage buildings, hospitals, schools, universities and complex mixed-use and residential projects.



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### **Fire Testing & Research Application**

Dr Mofidi bridges academic research with practical application through fire testing experience in both laboratory and field conditions. She has expertise in developing testing protocols, interpreting results for regulatory compliance, and translating research findings into implementable design solutions.

### **Retrospective Assessment & Remediation**

Dr. Mofidi specializes in post-construction fire safety assessments, identifying non-compliance issues, and developing cost-effective remediation strategies and her experience includes managing large-scale building remediation programs. and providing expert witness services for fire safety litigation.

### **Expert Witness Services**

Since 2023, Dr. Mofidi has applied her extensive experience in built environment consultancy and research to providing expert witness support for complex litigation and dispute resolution projects in the UK. Her UK design experience at the 'coal face' has proved an invaluable asset in representing her clients. During this time, she has primarily focused on combustible external cladding cases.

