



EDUCATION

- University of Science and Technology of China
 - Bachelor of Science, Engineering Thermophysics, 1990
- The Hong Kong Polytechnic University
 - Doctor of Philosophy, Building Services Engineering, 2000

PRACTICE AREAS

- Fire Protection Engineering
- Computational Fluid Dynamics Modeling
- Fire/Life Safety/Egress Assessment
- Fire Protection System Design/Analysis/Inspection
- Building Code, Fire Code, and Standards Consulting
- Performance-Based Design
- Code Development
- Research

REGISTRATIONS

- Professional Engineer in CA, IL, and MI

CONTACT

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EXPERIENCE

Ervin Cui has more than twenty years of fire protection engineering experience, including supertall towers, convention buildings, airport terminals, railroad stations, industrial buildings, warehouses, amusement halls, and other large-volume facilities. His experience includes working on numerous design and consulting projects and leading project teams and international business development efforts.

Dr. Cui has performed simulations and conducted analyses involving fire growth, smoke movement, and egress in complex building geometries for large atrium buildings, airport terminals, high-rise buildings, and below-grade train stations.

Prior to joining WJE in 2022, Dr. Cui worked at the fire protection engineering firms of Schirmer Engineering, Aon Fire Protection Engineering, and Jensen Hughes.

REPRESENTATIVE PROJECTS

Public Transportation

- John F. Kennedy International Airport - New York, NY *
- Brussels Airport - Belgium *
- Doha International Airport - Qatar *
- O'Hare International Airport - Chicago, IL *
- Los Angeles County Metropolitan Transportation Authority - CA *
- Chicago Transit Authority - IL *
- Metropolitan Atlanta Rapid Transit Authority - GA

Super-Tall Towers

- Kingdom Tower - Jeddah, Saudi Arabia *
- Chicago Spire - IL *
- St. Regis Chicago - Chicago, IL *
- Trump Tower - Chicago, IL *
- Beijing Greenland Center - Beijing, China *
- World Trade Center III - Beijing, China *
- Lotte Tower - Seoul, Korea *

Industrial Buildings

- Apple Database Center - Ulanqab, China *
- Rivian Electric Vehicle Assembly - Normal, IL *
- Ford Vehicle Assembly Plant - Dearborn, MI
- Lucid Electric Vehicle Assembly Plant - Casa Grande, AZ *
- General Motors Assembly Plant - Detroit, MI *
- Volvo Amazon Project - Berkeley, SC *

Convention Centers

- McCormick Place - Chicago, IL *
- Greenland Center - Nanchang, China *
- Doha Convention Center - Qatar *
- United States Air Force Academy Visitors Center - Colorado Springs, CO

Historical Buildings

- Illinois State Capitol - Springfield *
- Illinois Supreme Court - Springfield *
- Kansas Statehouse - Topeka *
- Book Cadillac Hotel - Detroit, MI *

PROFESSIONAL AFFILIATIONS

- Asia-Oceania Association for Fire Science and Technology (AOAFST)
- Council on Tall Buildings and Urban Habitat (CTBUH)
- National Fire Protection Association (NFPA)
- Society of Fire Protection Engineers (SFPE)

TECHNICAL COMMITTEES

- NFPA 130 - Fixed Guideway and Passenger Rail Systems, former member
- SFPE - Subcommittee on Research and Innovation

* Indicates projects at previous firm