

Fire Protection Research Engineer III

US-IL-Northbrook

Job ID 2020-18416

of Openings 1

Job Category Engineering



At UL, we know why we come to work.

Thousands of us around the world wake up every day with a common purpose: to make the world a safer, more secure and sustainable place. Science is in our DNA; we are endlessly curious and passionate about seeking and speaking the truth. We take delight in knowing that our work makes a meaningful contribution to society, and we are proud that our culture is centered on integrity, collaboration, inclusion and excellence. UL stands at the forefront of technological advancement, and we are continually challenged to find new ways to foster innovation and positive change. Satisfying? Yes. Exciting? Absolutely!

What you'll learn & achieve:

The Fire Research and Development team in UL's Northbrook, IL headquarters facility is looking for a qualified individual to perform fire protection engineering work in a research organization. The work includes research project design, hazard identification and mitigation, product safety considerations, technical report writing, and technical documentation necessary to develop test standards. The individual will work in a team environment. Activities include:

- Assist in conducting studies and analyses to determine the feasibility of various engineering approaches.
- Help to define technical concepts and criteria to resolve challenges in current testing / certification programs or to develop new certification programs.

- Application of engineering and scientific knowledge when participating in planning and conducting experiments.

Projects require substantial knowledge of state-of-the-art engineering principals and scientific theory, and use technical concepts and procedures to solve a wide range of research based problems.

Responsibilities:

- Identifies fundamental knowledge needed to enhance UL's industry and standards positions and to support the strategy of UL's aligned product categories (e.g., fire suppression, fire resistance, fire containment, reaction to fire).
- Applies engineering concepts to evaluate new technology and product systems, and accomplish specific research tasks.
- Exercises sound judgment in formulating, evaluating, and correlating broad engineering research concepts in guiding the analysis of unique problems
- Develops new and improved engineering and measurement techniques and methods.
- Analyzes product data and laboratory test results to determine causes of product safety challenges to develop solutions.
- Evaluates technical specifications and factors related to process or design objectives.
- Stays ahead of changing technologies in the field by reading technical and industry journals, scientific publications. Attends, participates and represents UL in academic and industry conferences.
- Author technical reports, develop and deliver presentations and participate in standards development projects.
- Performs other duties as directed.

What makes you a great fit:

- University Degree in Fire Protection Engineering, Mechanical Engineering, Civil Engineering, Physics or other related technology discipline plus generally two years of direct related work experience.
- Demonstrated general knowledge of engineering disciplines, possession of and ability to maintain engineering academic and applied knowledge and skills.
- Ability to collaborate with peers and work directly with Research Engineers, Scientists and other technical staff to complete projects from start to finish.
- Willingness to work hands on in the fire laboratories.
- Excellent verbal and written communication skills required. Ability to interface with clients directly and effectively.
- Self-starter, quick learner, and eager to be hands-on. Creativity and curiosity are personal attributes which lead to success in this position.

What you'll experience working at UL:

- Mission: For UL, corporate and social responsibility isn't new. Making the world a safer, more secure and sustainable place has been our business model for the last 125 years and is deeply engrained in everything we do.
- People: Ask any UL employee what they love most about working here, and you'll almost always hear, "the people." Going beyond what is possible is the standard at UL. We're able to deliver the best because we employ the best.

- Interesting work: Every day is different for us here as we eagerly anticipate the next innovation that our customers' create. We're inspired to take on the challenge that will transform how people live, work and play. And as a global company, in many roles, you will get international experience working with colleagues around the world.
- Grow & achieve: We learn, work and grow together with targeted development, reward and recognition programs as well as our very own UL University that offers extensive training programs for employees at all stages, including a technical training track for applicable roles.
- Total Rewards: All employees at UL are eligible for bonus compensation. UL offers a generous 401k matching structure of up to 5% of eligible pay. Additionally, we invest an additional 4% into your retirement saving fund after your first year of continuous employment. We provide Healthcare Reimbursement Accounts and Health Savings Accounts that UL contributes to twice per year! Depending on your role, you can work with your manager on flexible working arrangements. We also provide employees with paid time off including vacation, holiday, sick and volunteer time off.