Senior Fire R&D Engineer

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!

The R&D and External Science, Science and Operations, team is seeking candidates for a Senior Fire R&D Engineer in the Fire R&D team. The successful candidate will emphasize mentorship and supporting the career growth of researchers and technicians that collaborate with them, while providing science-based solutions to UL’s businesses and customers. The candidate will be expected to build a personal network both with UL leadership and technical staff, as well as with UL’s customers and other external stakeholders: this personal network is expected to provide a pipeline of project work to the team as well as facilitate sharing of acquired team knowledge and results and enhance the visibility of the team and its staff.

What you’ll learn & achieve:

Performs engineering work in Research including project design, hazard identification, product safety considerations, and the documentation necessary to produce and reproduce testing standards. Individual will work within the fire R&D teams and with multiple business units within UL LLC.

- Conducts studies and analyses to determine the feasibility of various engineering approaches.
- Defines concepts and criteria to resolve major problems in current programs or approaches.
- Plans and conducts experiments on fire safety engineering topics using a hazard based safety engineering approach (NFPA 550).

Projects require substantial knowledge of instrumentation, equipment, data analysis techniques, experimental design, standard fire tests, tools and construction practices.

- Identifies fundamental knowledge needed to enhance UL’s industry and standards position and support the strategy of the aligned categories.
- Applies engineering approaches and procedures to solve a wide range of fire research problems
- Develops and executes test methods at a variety of scales from bench scale evaluation to large scale compartment fire dynamics.
- Coordinates research projects from technical proposal to literature review, design of experiments, test plan development, test execution, data analysis, technical reporting, and technology transfer and dissemination of results.
- Exercises sound judgment in formulating, evaluating, and correlating broad engineering research concepts.
- Guides the analysis of unique problems and develops new and improved techniques and test methods.
- Analyzes product safety performance data to determine failure modes and effects to develop solutions and test methods.
- Stays abreast of emerging technologies by reading, reviewing and contributing to technical journals and publications. Present at relevant industry and academic conferences.
- Performs other duties as required.

**What makes you a great fit:**

- Advanced degree in Fire Protection, Mechanical Engineering, Civil Engineering, Physics or other related technology discipline plus directly related work experience.
- Demonstrated general knowledge of fire protection disciplines. Demonstrated ability to maintain academic and or applied knowledge and skills.
- Ability to collaborate with peers, and work directly with Research Engineers, Scientists and other team members in order to complete a project from inception to conclusion. Willingness to guide project work.
- Excellent verbal and written communication skills required to communicate research findings. Ability to interface with clients directly and effectively. Ability to engage with trade organizations, authorities having jurisdiction, customers, and other stakeholder groups.
- Expected to identify potential project/technical needs independently and/or with limited guidance from senior leadership; independently prioritize work, identify current and future resource needs, lead/anticipate in team strategy planning. Ensure alignment of technical work with business priorities and goals.
- Self-starter, quick learner, and eager to contribute to the team’s efforts. Creativity, curiosity, and ability to motivate staff are personal attributes which lead to success in this position.
- UL has COVID-19 protocols and policies in place to ensure the safety of our employees, customers and clients. Effective November 1, 2021, the company mandates that employees are vaccinated against COVID-19 as a condition of employment (except where prohibited by law), subject to reasonable accommodation as required by law.

**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.

**Learn More:**

Working at UL is an exciting journey that twists and turns daily. We thrive in the twists and revel in the turns. This is our every day. This is our normal.

Curious? To learn more about us and the work we do, visit UL.com

**Options**

- Apply for this job online
- Email this job to a friend

**Connect With Us!**

Not ready to apply, or can't find a relevant opportunity?
[Connect with us](#) to keep informed about the latest UL career opportunities, tailored to your interests.

If you wish to request reasonable accommodation at any time, please email our Talent Acquisition team at Talent.Acquisition@ul.com.

UL is an Equal Opportunity Employer: Female/Minority/disability/Protected Veteran/Sexual Orientation/Gender Identity

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, protected veteran status, or disability status. If you'd like more information about your EEO rights as an applicant under the law, please review the [EEO is the Law](#) and [EEO is the Law Supplement](#).

Please review the following additional documents:

- [UL EEO Policy](#)
- [Pay Transparency Statement](#)
- [E-Verify Poster (English)](#)
- [Right to Work Poster (English)](#)
UL is committed to hiring and retaining a qualified diverse workforce. We are proud to be an Equal Opportunity/Affirmative Action Employer, making decisions without regard to race, color, religion, creed, sex, sexual orientation, gender identity, marital status, national origin, age, veteran status, disability, or any other protected class. U.S. Citizenship is required for most positions.

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Application FAQs

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