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Principal Engineer (PDE)

US-NY-Melville | US-IL-Northbrook

Job ID 2017-7674**# of Openings** 1**Job Category** Engineering

Overview

At UL, we push boundaries, provide peace of mind, and unlock what's next. #ThisIsOurNormal

Contribute to a Safer, More Secure, and More Sustainable World. At UL, we know why we come to work. Thousands of us around the world wake up every day with one common purpose – to make the world a safer, more secure, and more sustainable place to live. We clear the way for our customers to introduce the latest products, technological advances, and systems in an increasingly complex world so they can provide peace of mind to the market. Our integrity is woven throughout our company and shapes the way we approach and deliver our solutions. We are proud that the work we do every day has a meaningful contribution to society. We continue to build upon our legacy of trusted expertise and partnership to keep our communities safe and secure as we march forward into the future. This helps us to sleep better at night, and we are confident that the millions of people we touch rest easier too.

Responsibilities

UL is looking for an experienced **Principal Engineer** to join our **Wire & Cable** division in either our **Melville, NY** or **Northbrook, IL** office.

The Principal Engineering position will have a specific background in fire science as it relates to flame tests, such as the plenum flame test(NFPA 262), vertical tray(UL1685), Riser flame test(UL1666), European Construction Products Regulation(CPR) and IEC large and small scale flame test for wire and cable products. Cone calorimeter testing to develop working models to predict large scale flame results.

- Based on input from Regional Lead Reviewers (RLR) and other sources, drafts, develops to implementation and maintains consistent and technically appropriate certification requirements in UL Standards and Outlines of Investigations as well as other documents.
- Develops and / or reviews the development of technical content that serves as the basis of training programs for RLRs, Field Services and other UL staff to ensure appropriate and consistent application of requirements. Schedules staff meetings and/or teleconferences with RLRs for discussions of technical requirements, procedures, form usage, etc.
- Serves as the technical project handler of qualified New or Unusual products. In this role, develops or identifies requirements to address new technical developments or product features. Works in conjunction with and utilizes the resources of the PDE Manager, Chief Engineer, Research, Legal, and CAS to completely review the New or Unusual product and develop the appropriate requirements for certification. Utilizes external resources such as UL's Electrical Council in determining impact on Codes and Standards. Prepares a letter report of findings for review by the PDE Manager and distribution to the customer through Commercial Operations.
- Assists Commercial Operations in the determination of new business opportunities. Advises Commercial Operations of the technical resources needed to actively participate in new businesses.

- Working knowledge of appropriate installation codes, standards or guidelines.
- Performs other duties as directed.

Qualifications

Education/Experience

- University Degree in Fire Science/Fire Protection or Engineering/Technology from an ABET accredited program. Educational background must include thermodynamics, fluid mechanics, and heat transfer.
- Master's Degree in Fire Protection preferred.
- Relevant work experience in fire science/protection/safety etc.

Additional Preferred Skills and Knowledge

- Fire measurements (e.g., temperature, heat flux, velocity, etc.)
- Understanding of small-scale test methods such as the Cone Calorimeter
- Understanding of analytical test methods such as TGA, IR, DSC, XRF, C-IC, Bomb Calorimeter
- Statistical data analysis
- Background in the design/manufacturing of wire and cable
- Understanding of material science background

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