Overview

The UL Firefighter Safety Research Institute (FSRI) advances fire research knowledge and develops cutting edge, practical fire service education aimed at helping firefighters stay safe while more effectively protecting people and property.

https://ulfirefightersafety.org/

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

Under general direction, the Associate Research Engineer performs engineering work in the UL Firefighter Safety Research Institute of Underwriters Laboratories, Inc. including assisting staff with researching, conducting experiments, gathering data, developing preliminary findings, and preparing written reports. Works with other engineering staff to ensure output is accurate and technically sound.

- Identifies knowledge needed to enhance UL’s thought leadership and support the strategy of the Firefighter Safety Research Institute.
- Document laboratory procedures, help prepare detailed reports, and evaluate technical specifications and factors related to the process or design objectives.
- Identify and recommend hardware and equipment needed for laboratory and field experiments.
- Stays ahead of changing technologies, in the field by reading journals and scientific publications, and attending academic conferences.
- Plan, design, and complete experiments as needed and assist in the documentation of the results.
- Performs other duties as directed.

Qualifications

- Bachelor’s degree in mechanical, civil, fire protection or other related engineering discipline course work in thermal fluid sciences.
- Demonstrated general knowledge of engineering disciplines with exposure to experimentation and/or computational work.
- Demonstrated ability to maintain engineering based academic and applied knowledge and skills.
- Ability to collaborate with peers work directly with fellow Research Engineers and other team members to complete a project from start to finish.
- Excellent written and oral communication skills required.
- Fire service experience is preferred
- Desire to learn new software packages with a preference on scripting languages, typesetting, and version control.
- Physical demands include, but are not limited to: standing, reaching, stooping/bending, walking, climbing ladders.
- Must be able to wear a respirator.
- Ability to lift heavy material >60lbs. assisted and unassisted and/or frequently work in difficult positions.
- Ability to travel (up to 20%).