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Postdoctoral Researcher

US-MD-Columbia

Job ID 2018-8002 **# of Openings** 1 **Job Category** Other

Overview

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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 Firefighter Safety Research Institute (FSRI) is seeking a Postdoctoral Researcher in the area of fire forensics. UL 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. We are looking for a Postdoctoral Researcher to lead research in the area of fire forensics focusing on the examination of the use of fire dynamics analysis techniques with furniture fueled fires. The initial term of appointment is one year, renewable for an additional year upon satisfactory progress.

As a Postdoctoral Researcher, you will work directly with Dr. Daniel Madrzykowski and Dr. Craig Weinschenk for both technical guidance and professional mentorship. With Dr. Daniel Madrzykowski, you will define an individual development plan balancing career development and research goals.

JOB RESPONSIBILITIES:

1. Conducts primary research on the identified field or topic.

2. Applies intensive and diverse knowledge of fire dynamics concepts to the specific research tasks. Exercises a high degree of judgment in formulating, evaluating, and correlating broad engineering research concepts and guiding the analysis of unique problems and developing new and improved techniques and methods.
3. Analyzes research results in order to determine causes of problems and develop solutions.
4. Stays ahead of changing technologies, in the field by reading journals and scientific publications, and attending academic conferences.
5. Plan, design and complete initial and follow-up procedures as needed to test and validate results.
6. Performs other duties as directed.

Qualifications

- PhD in Fire Protection Engineering or similar.
- Proven track record of publication and grant writing strongly preferred
- Demonstrated specialized knowledge of fire forensics and fire dynamics.
- Ability to collaborate with peers, and work directly with other team members in order to complete a project from start to finish.
- Excellent communication skills required.

#CB

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