



The Combustion Institute

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Senior Research Scientist

The purpose of this position is to develop new scientific knowledge, engineering technologies, and engineering solutions to problems in material flammability, fire dynamics, and fire protection, which can be used and applied by FM Global for the prevention or control of industrial property loss.

The principal responsibilities are to carry out internally-funded research projects in the areas of fluid dynamics, flammability of materials, combustion, flame spread, fire extinction, heat and smoke generation, and heat transfer in fires. Key areas of research include understanding of fire behavior at the medium and large scales via bench-scale experiments and theoretical models on material flammability and flame heat transfer. The experimental and theoretical studies will be closely integrated with Computational Fluid Dynamic (CFD) model development and validation within the work group. Long-range studies of fundamental nature will be balanced with applied research focused on critical business needs.

The position is responsible for all aspects of project management including project proposals, budget, execution, and reporting. In addition, the position is responsible to communicate and transfer research results for practical use within FM Global and, as appropriate, to outside organizations including the scientific/engineering communities and standards organizations. The position also acts as a consultant to FM Global business units as well as to insured clients.

Requirements

The position requires a PhD in Mechanical, Chemical Engineering, or related fields with a strong fundamental background in combustion, fluid mechanics, heat transfer, and applied mathematics. Extensive experience in experimental methods in thermal fluids, combustion/fire, and an understanding of associated numerical methods are required. Research experience with advanced laser diagnostics in flame is desirable. Also needed are excellent written and verbal communication skills, as well as demonstrated expertise in developing solutions to challenging technical problems. Title and salary are commensurate with qualifications and experience.

How to Apply

Contact: Dr. Yi Wang
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Combustion Job Opportunity

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