



The Combustion Institute

5001 Baum Boulevard, Suite 644
Pittsburgh, Pennsylvania 15213-1851 USA
Ph: (412) 687-1366
Office@CombustionInstitute.org

Fax: (412) 687-0340
CombustionInstitute.org

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Senior Research Engineer / Scientist

The purpose of this position is to develop new scientific knowledge, engineering technologies, and engineering solutions to problems in fire protection, which can be used and applied by FM Global for mitigating commercial property loss. The primary responsibility of the position in FM Global is to plan, conduct, and communicate results of research projects to support the critical business needs of FM Global. The research projects are internally funded in the areas of fire growth and suppression, material flammability, combustion, heat transfer and fluid dynamics. Key areas of research include understanding of fire growth and suppression behaviors and developing cost-effective fire protection solutions. The experimental, theoretical and numerical studies will be closely integrated with large-scale fire testing and suppression research within the working group and with collaboration with flammability and fire model teams.

The position is responsible for all aspects of project management including project planning, execution, data analysis and documentation. In addition, the position is responsible for communicating and transferring research results for practical use within FM Global and, as appropriate, to outside organizations including the scientific/engineering communities and standard organizations. The position also acts as a consultant to FM Global business units as well as to insured clients.

Essential Requirements

The position requires:

- M.S. or Ph.D. degree in Mechanical, Chemical, Aerospace Engineering, or related fields;
- Strong background in combustion, fluid mechanics, heat transfer, and applied mathematics;
- Extensive experience in experimental methods in thermal fluids and combustion as well as understanding of associated modeling methods. Experiences in large-scale fire testing, and innovative solutions for problem solving are highly desirable; and
- Excellent writing and verbal communication skills, demonstrated expertise in developing solutions to challenging technical problems, and fundamental understanding of the physics relevant to fire phenomena.

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How to Apply

Title and salary are commensurate with qualifications and experience.

Direct application link:

<https://jobs-fmglobal.icims.com/jobs/9363/senior-research-scientist-fire/job?mode=view&mobile=false&width=626&height=500&bga=true&needsRedirect=false&jan1offset=-300&jun1offset=-240>

Contact:

Dr. Yibing Xin

Staff VP, Research Group Manager

FM Global, 1151 Boston-Providence Turnpike, Norwood, MA 02062

Email: yibing.xin@fmglobal.com

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