

## FM GLOBAL POSITION PROFILE

**TITLE:** Intern/Co-op – Battery Safety

**DEPARTMENT/LOCATION:** FM Global -- Research Division, Norwood, Massachusetts

**DATE:** Jan 13, 2023

### Job Summary:

We look for a graduate student or senior year undergraduate student in mechanical engineering to join a team of scientists dedicated to Li-ion battery safety research as a summer intern or fall semester Co-op.

### Company Summary:

FM Global is a leading property insurer of the world's largest businesses, providing more than one-third of FORTUNE 1000-size companies with engineering-based risk management and property insurance solutions. FM Global helps clients maintain continuity in their business operations by drawing upon state-of-the-art loss-prevention engineering and research; risk management skills and support services; tailored risk transfer capabilities; and superior financial strength. To do so, we rely on a dynamic, culturally diverse group of employees, working in more than 100 countries, in a variety of challenging roles.

### Responsibilities:

The purpose of this position is to design and conduct bench- or lab-scale experiment to study the thermal runaway and safety of Li-ion battery cells/modules, and perform data analysis and model implementation/evaluation.

The position will be working under the supervision of a senior scientist, responsible for experimental design, data analysis, modeling and reporting. Execution of the experiments will be supported by research technicians.

### Qualifications:

The position requires a BS degree in Mechanical, Chemical Engineering, Material Science or related fields with a background in combustion, fluid mechanics, heat transfer, electrochemistry, battery safety and applied mathematics. Familiar with Matlab, Python, and commercial CFD package. Also needed are excellent written and verbal communication skills, as well as demonstrated skill in developing solutions to challenging technical problems.

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