



MAJILITE

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Majilite Corporation is known for a stunning array of faux leather microfiber products including Novasuede™ which has set industry standards for unparalleled aesthetics. These high-performance luxury materials provide superb comfort and excellent durability. **The company specializes in the application of precision films for the industrial market.**

The products are specified by leading designers world-wide. Market segments include retail, hospitality, furniture, display, marine, cruise ship, aerospace, automotive, medical, footwear, apparel, custom manufacturing, and transportation.



Majilite has a skilled staff of chemists, engineers and technicians who are engaged in continual research and development to create new products and finishes. With an improved fire retardant product, sales volume would significantly increase.

Chemistry, Chemical Engineering, Fire Protection Engineering, and Material Science Majors – The products need to **increase their resistance to flammability to obtain a CE marking of B**. They currently pass the CE level C regulation. Improved performance is needed in order to increase sales. The construction of the **products is nylon and polyurethane, which burn readily**. They use a vertical burn test to determine the efficacy of fire retardant chemistries. You will **research innovative fire retardant materials and techniques and fabricate and test prototypes**. You will also identify potential vendors who can supply fire retardant chemistries based upon your research. **Once you have a product that may pass the CE level B, it will be for third party testing.**

The company needs 4 engineers to work as a team consisting of 2 graduate & 2 undergraduate students, to work about 10 hours each week. Most of the work may be done on campus after an initial meeting at the company. Weekly reports and a summary presentation are required at the end of the project. Project may be extended at the discretion of the company.

WPI Center for Innovative Manufacturing Solutions www.wpi.edu/+centerforIMS



The project timeline begins in January and should be completed before mid-April 2016. Students will be selected by a brief interview process with the company and should have the following qualifications.

You should be able to describe why you would be a good match for this paid consulting assignment.

CH/CHE/FPE/Surface Metrology Students:

1. Interest in the Project
2. Engineering Acuity
3. Basic Research and Organizational Skills
4. Ability to do Internet, Phone, and other basic Searches
5. Knowledge of basic Manufacturing Processes.
6. Presentation Skills
7. Availability Minimum 10 Hrs./Week

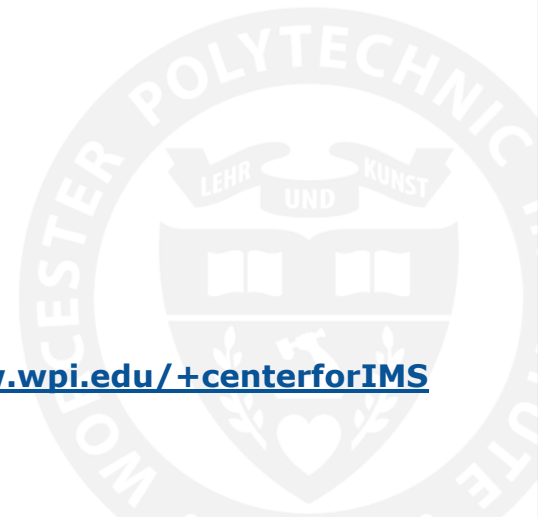
You will work in a team with the goal of providing actionable advice to the company.

If you are interested please email majilite@wpi.edu and include a letter explaining why you are a good candidate for one of these positions.

**Undergraduates earn \$14 to \$18/hour.
Initial estimate is 50 hours of work for each student.**

**Graduate/PhDs earn \$18 to \$22 per hour.
Initial estimate is for 50 hours for each student.**

This opportunity is open to all academically qualified students. A non-disclosure agreement is required.





WPI

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