

**Position Summary:**

The Product Development Engineering Intern will work directly with MPC's New Product Development, and Sales and Marketing, and Operations teams to assist in the development and launching of new products for a wide range of customers and applications. This position may be directly responsible for projects related to the preparation of prototype samples, executing lab-scale design of experiments related to the evaluation of new materials, optimizing process conditions and manufacturing methods related to scale-up activities, testing new materials, and developing test procedures and effectively communicating results. The position will report directly to the Director of Technology but will interface daily with Sales and Marketing, Operations, Supply Chain, Quality and Executive Management. At the end of the summer, the intern will prepare and present a report on his/her projects to the CEO and COO of the Company.

**Key Duties:**

- Execution of lab-scale design of experiments (DOE)
- Preparation of prototype samples
- Documenting and proceduralizing new processes
- Providing support and assisting production with the introduction of new products
- Provide in-process or lab testing and data analysis in support of new products and improvement projects
- If capable, support Computer-Aided Drawing (CAD) and 3D printing projects
- Implement Safety and Housekeeping Improvement projects such as 5S and New Miss Reporting

**Internship Qualifications:**

- Ideal candidate will be a Mechanical, Chemical or Materials engineering student who has completed at least his/her sophomore year
- Strong computer skills and proficiency with manipulating data
- Must be proficient in MS Office: Word, Excel and PowerPoint
- Experience with statistical analysis preferred
- Fundamental knowledge of material science preferred
- A desire to perform both lab-scale and production-scale activities related to product development
- Ability to communicate in a clear and concise fashion
- Must have a strong work ethic and be highly self-motivated
- Bilingual (Spanish) proficient in speaking and writing preferred

**Length of Employment:**

The internship is a full-time forty hour per week position for a period of not less than 10 weeks