Internship Opportunity: Polymer Extrusion and Characterization Project (October 2024 - December 2024)

Position: Polymer Extrusion and Characterization Intern
Duration: 3 Months (October 2024 - December 2024)
Location: Wilmington, DE
Company: Cargill

Contact: emile_homsi@cargill.com Tel: 302 502 7309

About the Role:

We are seeking a motivated intern to join our team for a 3-month internship focused on polymer extrusion and characterization. The selected candidate will work closely with our research and development team on a cutting-edge project aimed at developing new flame-retardant additives for polymers.

Key Responsibilities:

- **Polymer Extrusion and Compounding:** Operate and optimize polymer extrusion processes, including compounding of various additives to achieve desired material properties.
- **Polymer Characterization:** Conduct detailed polymer characterization using techniques such as Differential Scanning Calorimetry (DSC), Thermogravimetric Analysis (TGA), and Fourier Transform Infrared Spectroscopy (FTIR).
- **Data Analysis:** Analyze and interpret data to understand the relationship between polymer structure and properties, providing insights for material improvement.
- **Documentation:** Prepare detailed reports and presentations summarizing findings, results, and recommendations.
- **Collaboration:** Work closely with the R&D team, sharing insights and contributing to problem-solving discussions.
- **Flame Retardant Testing (Preferred):** Assist in conducting flame retardant-related tests and assessments, contributing to material safety and performance evaluations.

Qualifications:

- **Education:** Currently pursuing a degree in Polymer Science, Chemical Engineering, Materials Science, or a related field.
- **Experience:** Hands-on experience with polymer extrusion and compounding, as well as polymer characterization techniques (DSC, TGA, FTIR).
- **Skills:** Basic understanding of polymer science and structure-property relationships.
- **Additional Skills:** Familiarity with flame retardant testing and standards is a plus.
- **Attributes:** Detail-oriented, self-motivated, and able to work both independently and as part of a team.

Benefits:

- Gain practical, hands-on experience in a real-world R&D environment.
- Work on a project that could contribute to significant advancements in polymer technology.
- Collaborate with experienced professionals in the field.
- Develop your skills and build a strong foundation for a future career in polymer science.

Application Process:

Interested candidates should submit their resume and any relevant academic transcripts to [. . . .].

Equal Opportunity Employer:

We are an equal-opportunity employer and encourage applications from all qualified individuals.

This role is an excellent opportunity for someone looking to gain experience in the field of polymer science, particularly in extrusion and characterization.