



Packaging, Specialty Plastics & Hydrocarbons R&D Internship: Solids Handling

Dow™ is seeking an intern for an exciting and challenging opportunity in process research for the Packaging, Specialty Plastics & Hydrocarbons R&D group in Lake Jackson, Texas. The primary purpose of this role is to conduct laboratory studies on Solids Processing and Handling (particle technology) in support of the global Dow polyethylene manufacturing assets. This 12-16 week full-time position will allow a Ph.D. candidate to develop industrial work experience while building their professional network and gaining knowledge of real-life industrial problems.

This intern will be exposed to Dow™, one of the largest chemical companies in the world, and will have access to state-of-the-art facilities and the opportunity to work with technical experts in diverse fields.

The intern will have responsibility for individual research projects, which may include aspects of particle technology & solids processing, such as particle flow characterization and measurement, granular flow, storage and conveying, particle & powder characterization, drying, coating, feeding/dosing, classification, separation technologies, mixing/blending and particle engineering. The intern will have an opportunity to collaborate with Dow experts and conduct research bringing their unique perspective and expertise.

Responsibilities

- Form hypotheses, design and perform lab-scale experiments in solids processing and handling areas.
- Conduct experimental studies and data analysis.
- Apply fundamental knowledge to model and explain phenomena observed during testing.
- Communicate research results in technical reports and presentations.

Qualifications

- PhD candidate in chemical or mechanical engineering.
- Background or knowledge and interest in solids processing & handling (particle technology).
- Hands-on experimental experience.
- Excellent written and verbal communication skills.
- Strong interpersonal and teamwork skills.
- Strong analytical skills.

If you are interested in this position, please send a resume/CV and 2-page research summary to the hiring manager: Ying Yu (yyu4@dow.com) by January 26th, 2024.