

Hydrocarbons Process Chemistry R&D Internship

The Dow Chemical Company™ is seeking an intern for an exciting and challenging opportunity in Process research for the Ethylene envelope in the Hydrocarbons R&D group in Freeport, Texas. The primary purpose of this role is to conduct laboratory studies on process related issues in support of the global Dow hydrocarbons 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 an individual research project in the area of process support of an investigation into scrubbing of ethylene cracked gas streams and will have an opportunity to guide research in this area with their unique perspective.

Responsibilities

- Design experiments to test process conditions and additives to enhance impurity removal and fouling reduction.
- Perform experiments to test efficacy of different additives at lab scale.
- Apply fundamental knowledge and background to explain phenomena observed during testing.
- Communicate research results in technical reports and presentations.

Qualifications

- PhD or PhD candidate in chemistry, chemical engineering, or related fields.
- Background or knowledge and interest in process chemistry, in particular scrubbing technologies.
- Excellent written and verbal communication skills.
- Strong interpersonal and teamwork skills.

If you are interested in this position, please send a resume/CV and research summary to Cole Witham (CAWitham@dow.com) by March 15, 2019.

Separation R&D Internship

The Dow Chemical Company™ is seeking an intern with a background in membrane and/or molecular sieve separations to work on a multifunctional team studying microporous materials used in hydrocarbon gas separations and purification. 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 an individual research project in the study of microporous materials used in the separation of hydrocarbon molecules and will have an opportunity to guide research in this area with their unique perspective.

Responsibilities

- Synthesize microporous molecular sieve materials
- Develop characterization methods for microporous materials
- Apply fundamental knowledge and background to explain phenomena observed during testing.
- Communicate research results in technical reports and presentations.

Qualifications

- PhD or PhD candidate in chemistry, chemical engineering, or related fields.
- Background or knowledge and interest in microporous materials and their characterization.
- Excellent written and verbal communication skills.
- Strong interpersonal and teamwork skills.

If you are interested in this position, please send a resume/CV and research summary to Cole Witham (CAWitham@dow.com) by March 15, 2019.