

Croda – Process Development Scientist

Croda is seeking a Process Development Scientist for our Mill Hall, PA manufacturing site. The Process Development Scientist's job is to support and assist the Process Development Team Leader with all aspects of new product development from lab to production scale-up. The P.D. Scientist is also responsible for establishing more efficient and cost saving methods of production for current manufactured products. Perform all duties within the Company's Safety, health and environmental regulations. All other duties as assigned by management.

Key Duties:

Lab Scale –up to 50%

Responsibilities are receiving and reviewing all new product procedures from PD Manager and/or R&D.

Make necessary lab batches for comparison with R&D samples and contact R&D chemists to discuss any problems and possible solutions. Recommend any modifications to the procedures for future pilot scale-up.

Sample lab batches for Quality Control testing.

Compile final lab batch data for PD Manager and assist in decision making for further scale-up (pilot).

Send out various PD samples as required.

Supervision of Pilot -20%

Responsible for assisting the PD Manager in monitoring the pilot batches.

Answers questions from QC personnel and pilot operator on testing and manufacturing of new pilot products from knowledge of product chemistry and lab bench experience.

Assist QC with testing and also handle additional tasks needed by the pilot operator (ex. Pastillating pilot material).

Responsible for tasks delegated during PD Manager absence including: MOC 3rd level management, meeting attendance, all pilot responsibility and decision making, production process questions etc.

Process Improvement –10%

Responsible for developing new methods for production of current products for increased profits, waste minimization, quality, and environmental reasons.

Process Trouble Shooting –10%

Responsible for helping PD Manager in finding causes and solutions for production problems.

Multiple lab batches may be required to investigate the problem or develop a solution.

New Product Introduction and Technologies Support –10%

Responsible for helping with supervision and decision making of initial scale-up (production) batches of new products.

Support new technologies by product comparison of current manufacturing methods and new manufacturing technologies (ex. Loop Ethoxylation vs. Stirred Pot).

Help Quality Control Lab with developing testing methods on new lab equipment for product testing.

Qualifications:

BS in Chemistry or equivalent science degree. Courses in Organic Chemistry, Statistics, Math & Computers required. Additional classes in Instrumental Chemistry, Physics, Biology or Environmental Science preferred.

3 years experience in a chemical manufacturing plant/lab setting.

Experience with lab equipment and quality analysis of samples using acid or base titrations, gas chromatography, liquid chromatography, and solids analyzer.

Basic engineering or mechanical understanding of a chemical manufacturing plant helpful.

Proficient in MS Office and Excel.

Able to walk, stand and sit for a minimum of 8 hours per day. Ability to lift 30 lbs.

Please note: Only those candidates with US work authorization will be considered*
Croda is seeking a Research Scientist to join our Research & Technology team in New Castle, DE. Located in the Griffin Innovation Center at Croda's Atlas Point site, this individual would generally support all of the Advanced Technologies and Performance

Products (AT&PP) businesses. The main responsibility would be to support and develop new and patentable products for the AT&PP business units.

This role would be flexible, and not tied to one specific business sector in the AT&PP. Furthermore, this individual is expected to carry out experiments in both synthesis and application, and mostly hands-on.

There would be three focused areas for this role:

- To develop expertise in polymerization techniques in supporting new product development for water treatment applications;
- To develop expertise in ester and amide chemistries in supporting synthesis team and carrying out new product development projects;
- To develop application and product expertise in Croda's rich portfolio of Industrial Chemicals, and provide technical support for the North America region.

Less than 20% travel is expected and mainly would be to technical conferences, corporate headquarters and other Croda locations. It is very possible that this individual would present scientific papers at external and internal conferences as well as to customers, directly at their locations.

The role would report to the Applications Manager – Home Care, and be mentored by other senior technical members in the AT&PP RD team.

Qualifications:

- B.S. or M.S. with related industrial experience
- Good understanding of analytical and surface science techniques
- Good (proven) mechanical aptitude, and hands-on lab skills
- Good interpersonal skills
- Good presentation, and verbal and written English language skills
- Desire to learn and develop his/her skill base

Preferred:

- Good understanding of surfactant products and related applications;
- Experience in one or more techniques: ester & amide condensation reactions, alkoxylation;
- Polymerization (Emulsion or Solution with Acrylic / Vinyl monomers) experience is highly desirable;
- Experience in both applications and synthesis;
- Proven record of innovative commercial product launches.

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