



R&D Process Engineer

in USA-DELAWARE-NEWARK-STINE

Description

FMC Agricultural Solutions is seeking an experienced process development engineer for commercialization of new agricultural active ingredients. Our business has a robust pipeline of new products that anticipate our customers' needs and contribute to their long-term prosperity while advancing agriculture.

This role requires chemical engineering/organic chemistry knowledge, as well as work experience in process development, pilot plant or commercial operations. The successful candidate will conduct laboratory-based programs to develop commercial manufacturing processes as part of a cross-functional team of process chemists, analytical chemists and engineers. The role involves engineering support through all phases of process development, with responsibility from early stage to commercial launch.

Responsibilities:

- Develop process concepts and cost analyses for chemical synthetic routes/manufacturing processes.
- Design and conduct laboratory experiments to demonstrate commercial process feasibility and to establish essential chemistry/engineering parameters.
- Design, direct, and coordinate work with external research partners to supplement internal experimental program.
- Evaluate reactive chemistry hazards and guide the interpretation leading to safe operating conditions
- Develop basic design data, define operating conditions and critical limits, and establish safety and quality parameters for the commercial process through scale-up and modeling of unit operations.
- Effectively document and transfer technology and know-how for the design, construction, and operation of commercial facilities and product registration.
- Participate in the pre-campaign planning and start-up of commercial operations.
- Manage all aspects of laboratory EHS and apply technical knowledge to advance laboratory safety of the group.

Qualifications

- Minimum BS Degree Chemical Engineering, M.S. / Ph.D. preferred
- Minimum 3-5 years R&D-process development experience in pharmaceutical, agricultural, fine or specialty chemicals industry required.
- Strong interpersonal and communication skills to effectively communicate technical and non-technical information with global internal and external partners required.
- Manufacturing or scale-up experience ideal.
- Expertise in separations technologies ideal.
- Expertise in process safety management and reactive/thermal hazards evaluation ideal.
- Flexible work schedules to accommodate different geographies required.
- Travel to international sites may be required (less than 10%).