R&D Process Engineer

Description:
FMC Agricultural Solutions is seeking an experienced R&D Process 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.

Required Education:
▪ M.S. / Ph.D. Degree in Chemical Engineering.

Qualifications
▪ 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.
▪ Experience in separations technologies ideal.
▪ Experience 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%).