



At Valent Biosciences, our focus is on building the strongest portfolio of biorational solutions to improve agricultural productivity, protect public health, and keep our forests beautiful. It's all part of our commitment to creating value for our customers around the world — and doing so in a sustainable way. We invite you to explore our offerings and learn how Valent Biosciences can help you make a positive difference in your world. Valent BioSciences develops, manufactures and commercializes biorational products with sales in 95 countries around the world.

**Position Title:** Formulations Scientist

**Description of Job:** Discover, develop and evaluate innovative formulation processes and formulations for new and existing microbials and natural products, including mixtures with conventional agrochemical pesticides. Work in a collaborative team environment with other Research groups, Regulatory Affairs, Field Development, Business Management, Supply Chain, Formulation Manufacturing and third parties. Provide technical support for current products and products under research and development, including production scale-up responsibilities.

**Principal Responsibilities:**

- Design, create and develop novel and proprietary seed, in-furrow, and spray formulations, formulation processes, and application technologies for biorational substances (typically derived from natural or biological origins). Evaluate new prototype formulations (physical, chemical, biological, and efficacy stability screening).
- Conduct scale-up studies to take prototype formulations from lab bench-top to pilot scale to production scale.
- Develop manufacturing methods and directions and coordinate with Supply Chain and third-party formulators to transfer technology.
- Provide technical leadership and support to Supply Chain and third-party formulators as needed.
- Prepare representative batches to support GLP physical / chemical characterization and registration studies. Prepare product chemistry documentation to support global product registrations.
- Work with Business Management, Research and Development teams and Supply Chain to identify formulation needs and opportunities and prepare product design goals.
- Maintain accurate experimental records of all work using an Electronic Notebook system.
- Maintain other records as necessary to support patent applications for innovative products and processes.
- Keep current with emerging formulations and delivery technologies, as well as global standard test methods (e.g. CIPAC and ASTM) and practices for formulations.
- Follow recognized lab practices for personal safety and the safety of co-workers.

**Required skills/experience:**

- A proven record in the hands-on design and development of various types of formulations.
- Prior experience in formulation of biorational and conventional pesticide chemistries (fungicides, insecticides, nematicides, seed treatment) for use in agriculture is a definite plus.
- Working knowledge and experience in pilot plant-scale formulation processes and experience in transferring technology to commercial production is a plus.

**Education:** Ph.D. in Chemistry or Chemical Engineering with emphasis in relevant area (organic, physical organic, polymer, biochemistry, materials science)

**Travel:** 15% domestic

**Location:** Biorational Research Center in Libertyville, IL

**Manager Title:** Manager, Formulations Research