Chemistry Positions at Monsanto Company in St. Louis, MO

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**Job ID 01DSJ: Process Chemist**

Sustainable agriculture is at the core of Monsanto. Our best-in-class technologies deliver sustainable agriculture solutions that enable farmers to produce more crops while conserving precious natural resources. Monsanto Technology is comprised of a multifaceted group of scientists working together to revolutionize plant breeding, biotechnology, and crop protection chemistries. Our Production Technology group develops innovative new chemical and biological technologies in concert with continually improving our manufacturing processes to reduce raw material inputs, waste, and greenhouse gas emissions. In addition, Monsanto is dedicated to fostering a diverse and inclusive workplace and has been recognized by Fortune magazine as a top 50 Best Workplaces for Diversity and by Great Place to Work’s Top 25 World’s Best Multinational Workplaces.

Monsanto has an immediate need for a **Process Chemist** to join the New Process Development Team. The successful candidate should have a Ph.D. or M.S. in Organic, Physical Organic, or Organometallic Chemistry. Postdoctoral and/or industrial experience is highly desired for Ph.D. applicants, and industrial experience is required for M.S. applicants. A demonstrated track record of executing and completing innovative research and solving challenging, technical problems are prerequisites for this position. Applicants must have experience in reaction development, multistep synthesis, catalysis, and/or electrochemistry. Each candidate must have a very strong technical background and publication record; highly effective communication and interpersonal skills; excellent problem solving abilities; and a commitment to achieving superior results in the context of an interdisciplinary project team.

**Responsibilities Include:**

- Discover and develop chemical manufacturing processes for novel, small molecule chemical entities from the early development pipeline and the existing crop protection portfolio of products
- Execute laboratory scale studies focused on chemical manufacturing processes and demonstrate process scalability using both internal and external resources
- Identify key process development decisions and milestones, prioritize workflows in order to meet project timelines, and communicate results to key internal and external stakeholders
- Work closely with a multidisciplinary team consisting of Process Chemists, Analytical Chemists, Waste Treatment Scientists, Process Engineers, and Environmental Safety & Health Representatives to ensure the development of safe, sustainable, and economical manufacturing processes
- Work with the same groups to identify, develop, and implement improved technology for the manufacture of crop protection chemistries and key intermediates
- Interact with multiple world-wide business and process support/optimization teams to maximize the impact of the department’s effort on the bottom-line
- Work with product Formulations and Regulatory personnel to ensure that process changes have beneficial or minimal impact on final product composition

**Required Skills/Experience:**

- Minimum of a PhD in Organic, Physical Organic, Organometallic Chemistry or a related field – OR – a minimum of a Master’s degree in Organic, Physical Organic, Organometallic Chemistry or a related field with five or more years industrial experience
- Experience in reaction development, multistep synthesis, catalysis, and/or electrochemistry
- In both laboratory and manufacturing plant environments, the individual must possess the skills to study and carefully analyze in detail selected reactions, including reaction mechanisms, kinetics, and analytical data
- Strong written and verbal communication skills are required, as well as the ability to work independently and drive collaborative projects forward by drawing conclusions and communicating recommendations to the project team and departmental leadership
- The candidate needs to work effectively on interdisciplinary teams in a fast-paced, results-driven environment and have the ability to deliver results in multiple areas of responsibility

**Desired Skills/Experience:**

- For Ph.D. applicants: 2+ years of postdoctoral or industrial experience is highly desired
- For M.S. applicants: 10+ years industrial experience is highly desired
- Experience with membrane technology for ionic or molecular separations is a plus
Job ID 01DPW: Analytical Chemist (Note: 01DPW is projected to post on Monsanto Careers website by Friday, October 28, 2016)

The Chemical Analytics Program provides analytical chemistry support for all phases of Monsanto’s Chemistry product pipeline. The Product Development Analytics Platform within the Chemical Analytics Program is responsible for providing analytical chemistry support for the development of agricultural chemical products. We are seeking an Analytical Chemist.

The position is focused on performing low level chemical measurements on chemical reaction process streams, raw materials, and finished goods. The primary techniques used in this work include, gas chromatography-mass spectrometry (GC-MS), gas chromatography (GC), solid phase extraction (SPE) sample preparation, and liquid-liquid extraction sample preparation.

Required Education/Experience:
- PhD or MS or BS degree in Analytical Chemistry or a related field of study
- At least three years of experience
- Experience in analytical method development and validation
- Hands-on experience with gas chromatography, gas chromatography-mass spectrometry, and sample preparation techniques.
- Self-motivated with good interpersonal and communication skills, and strong customer orientation

Desired Education/Experience:
- Experience working with process chemists and engineers
- Experience with quantitative, low level analytical chemistry testing
- Working knowledge of statistics

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We believe that bringing diverse perspectives together is the most effective way to develop creative solutions to some of the world’s biggest challenges. Career opportunities at Monsanto range from farming, plant breeding, chemistry and engineering to marketing, environmental science, IT and many other areas. We’re always looking for exceptional professionals interested in developing a strong career while collaborating to develop solutions for sustainable agriculture. Sound like a job for you?

Why work with us?
- Life at Monsanto means collaborating with dedicated professionals in a stimulating environment
- Our people demonstrate our winning culture through positive and meaningful relationships
- You will work with market leading brand products in a global organization
- We provide competitive salaries, excellent benefits, & some of the best career development opportunities in the industry
- Monsanto is named Great Place to Work in many countries around the world
Job ID 017VY: Analytical Chemist

Improving human health, promoting environmental stewardship and fostering greater economic growth for the agricultural community can all start with something as small as a seed. Monsanto is a global leader in the development of hybrid agronomic and vegetable crops that improve nutrition, boost crop yields, limit spoilage and reduce the need for chemicals. We are committed to consistently introducing innovative products for our customers, and research is a key component of our current and future product pipeline. At Monsanto, we recognize that people are the key to our research success, and we are committed to recruiting and retaining the best individuals through our team-oriented culture that encourages creativity, decision-making, and entrepreneurial spirit.

Thank you for your interest in career opportunities with Monsanto. We are seeking a motivated and innovative individual to join a team of scientists as an Analytical Chemist. Sustainable agriculture is at the core of Monsanto. We develop technologies that enable farmers to produce more crops while conserving natural resources. Monsanto scientists are conducting research and development across multiple scientific disciplines to revolutionize plant breeding, biotechnology, and crop protection chemistries. The Chemical Analytics Program provides analytical chemistry support for all phases of Monsanto’s Chemistry product pipeline. The Product Development Analytics Platform within the Chemical Analytics Program is responsible for providing analytical chemistry support for the development of agricultural chemical products.

The position is focused on performing chemical measurements on chemical reaction process streams. The primary techniques used in this work include, liquid chromatography (HPLC), gas chromatography (GC), liquid chromatography-mass spectrometry (LC-MS), and nuclear magnetic resonance spectroscopy (NMR).

Required Education/Experience:
- Minimum of a PhD degree in Analytical Chemistry or a related field of study
- Experience in analytical method development and validation (industrial or academic)
- Hands-on experience with chromatography, mass spectrometry, and NMR
- Self-motivated with good interpersonal and communication skills, and strong customer orientation

Desired Education/ Experience:
- Experience working with process chemists and engineers
- Experience in the field of phosphorus chemistry analytics
- Working knowledge of the following: FTIR, multivariate statistics, thermal analysis, particle size measurements, scanning electron microscopy (SEM)

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Job ID 017N5: Agrochemical Formulations Scientist

Monsanto is seeing an exceptionally talented scientist to become an integral member of our multi-disciplinary Chemistry organization as an Agrochemical Formulations Scientist. This role will have responsibility for the development of new and improved agrochemical formulations designed for our global herbicide business. The primary focus will be on conducting experimental work driving product development through the application of formulation & delivery science.

Twenty years from now, the earth’s population will need 55% more food than it can produce now. Today, Monsanto is working with farmers around the world to do something about it. In over 60 countries, Monsanto has established industry-leading products because we give professionals the freedom to make real decisions. Monsanto is an Employer Of Choice with an outstanding professional development program and a history of building careers. Make an impact by joining the team that is working to solve one of mankind’s greatest challenges.

Responsibilities include:
- Define, evaluate, and develop formulation strategies and delivery technologies
- Design, prepare, and test product concepts for new and improved herbicide formulations that deliver differentiated product performance and handling characteristics
- Interface and coordinate activities with a multi-disciplinary team to enable data driven selection and product advancement
- Act as a champion for projects and provide diverse audiences (from Technology, Commercial, Regulatory, Quality, and Manufacturing) with updates through presentations and technical reports
- Limited travel to Monsanto field testing and production sites may be required to support product evaluation and commercialization

Required Education & Skills/Experience:
- Minimum of Ph.D. in Chemistry, Colloid Science, Food Science, Chemical Engineering, or closely related field of study
- Experienced in the preparation of complex product mixtures and multiple formulation types (e.g., EC, OD, SE, SC, CS, SL…)
- Assessment of formulation rheological properties, compatibility, and physical stability
- Product advancement of candidates developed
- Strong learning aptitude and agility
- Demonstrated innovation and critical thinking skills
- Self-motivated, with demonstrated ability to independently define and execute critical studies, and develop and communicate recommendations
- Ability to work in a matrix environment with excellent relationship, networking, and collaboration skills
- Exceptional communication skills, with a proven ability to convey complex ideas in a clear, precise, and actionable manner

Desired Education & Skills/Experience:
- Background in colloid & interfacial science and the evaluation and selection of surfactants, emulsifiers, dispersants, solvents, etc.
- Three or more years post-graduate applied research/product development experience, preferably with agrochemicals, or in other related industries – e.g., consumer products, paints & architectural coatings, or food formulations
- Demonstrated cross-functional project leadership experience
- Understanding of various herbicide modes of action and the benefits of different formulation types
- Working knowledge of experimental design and statistical methods
- Experience with development, scale-up, and transfer of production processes to commercial manufacturing

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Job ID 01E68: Analytical Chemist/Scientist

The Monsanto Regulatory Environmental Sciences Team in St. Louis is seeking a highly talented Analytical Chemist/Scientist to support new and existing product registrations and product stewardship for Monsanto’s global agricultural chemical portfolio. A strong technical background in quantitative and qualitative analytical chemistry is required. This role will focus around pesticide residue method development and structural elucidation of unknown metabolites and degradants. The individual will be responsible for the development of trace residue methods in a variety of plant, animal and environmental matrices, followed by validation and transfer to an external laboratory. External method troubleshooting and monitoring of the analytical phase of studies is a component of this role. Responsibilities will also include the identification and confirmation of key degradants and metabolites from radiolabeled environmental fate and plant and animal metabolism studies. Execution of radiovalidation and optimization of method conditions will be performed to support the development of quantitative methods.

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Required Education and Skills/Experience:
- Minimum of a PhD in Analytical Chemistry or a related field of study
- Demonstrated experience in quantitative analytical method development with an emphasis on liquid chromatography/mass spectrometry-based techniques
- Experience with structural elucidation and confirmation of unknown small molecules
- Strong technical troubleshooting and problem solving skills
- Agility to work on and balance multiple projects and make adjustments to deliver the required business objectives
- Self-motivated and attention to detail
- Strong laboratory documentation skills

Desired Education and Skills/Experience:
- Industrial experience in method development and/or structural elucidation
- Experience conducting studies in a regulated environment (GLP and/or GMP)
- Experience developing quantitative analytical methods in a variety of complicated matrices (i.e. soil, plant, animal, etc.)
- Environmental, plant, and/or animal metabolism experience applied toward the identification & confirmation of unknowns
- Development gas chromatography/mass spectrometry-based methods and troubleshooting experience
- Experience with air sampling, monitoring and associated analysis

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