



## Research Scientist—Defoamers

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### Summary:

This position will be responsible for developing innovative solutions to solve our customers unmet needs using our defoamer product line. This person will conduct both laboratory and field testing to support our global defoamer business.

The role requires not only the ability to formulate and evaluate defoamers but it also requires organic synthetic skills to synthesize novel reagents to be used as defoamers, flotation collectors, pH modifiers, frothers, etc. for use by the mineral and fertilizer industries.

In addition, this position is responsible for ensuring that the entire defoamer product line formulations are optimized for performance and are cost effective so that profitability is maximized. The Research Scientist will work with the product regulatory team to ensure that the SDS is appropriate for the product and the country that the product is being sold to. The role requires the ability to work with purchasing, supply chain and operations to make sure appropriate inventory and storage conditions are maintained.

The successful candidate will have a strong technical focus in surface chemistry, and/or colloid chemistry with surface active and interfacial phenomenon as a key skill set. This understanding and knowledge should contain comprehensive understanding and appreciation for the fundamental physical chemistry of such systems. The candidate must be able to handle multiple projects/tasks simultaneously, meet deadlines, and construct clear and concise experimentation and demonstrate commercially focused decision making. Must have the ability and desire to interact with sales, operations, marketing and R&D in a team environment to obtain results to move projects toward completion. The person must be highly motivated, creative, self-starting and disciplined individual willing to grow and develop their own skills. A minimum of an MS in chemistry/chemical engineering or closely related scientific degree is required with a PhD preferred. The person must be comfortable with both hands on laboratory work, technical/patent research, and leading junior associates on technical projects.

## Primary Duties and Responsibilities:

- Responsible for formulations, specifications and manufacturing procedures for the defoamer product line.
- Evaluates the chemical and physical properties of various organic and inorganic substances (raw materials) in order to investigate their applications to mining/fertilizer chemicals.
- Evaluates customer's needs; interfaces with clients to determine the product's future direction.
- Work with purchasing to identify raw materials that will improve performance or increase product margins.
- Work with operations to ensure proper storage conditions, inventory, shipping and handling are maintained for each product.
- Designs new products and makes improvements to existing products and formulations.
- Tests finished products for quality purposes and recommends changes to product specifications as necessary.
- Participates in ongoing research projects, fostering creative ideas and promoting teamwork in the successful completion of assigned tasks.
- Designs and executes test programs, collects and analyzes data, performs sound scientific interpretation of the data, runs pilot tests and industrial tests, writes reports in a clear, concise and logical manner and coordinates information.
- Works with marketing and sales team to help determine the customer's unmet needs.
- Effectively work with operations team throughout the scale up process of new products
- Serve as customer liaison by providing rapid response and solutions to customer inquiries and requests; helping to resolve quality corrective actions
- Provide laboratory support to QA and Production; performs analytical tests
- Maintain laboratory records in a neat and organized fashion
- Work in laboratory safely and in accordance with safety procedures
- Maintain and calibrate laboratory instrumentation and equipment
- Develop novel test method to demonstrate ArrMaz product performance; creating performance standards
- Writing, revising, and editing documents such as Safety Data Sheets (SDS) and Technical Data Sheets
- Communicate clear and concise in both written and verbal forms to internal and external customers
- Supervise Laboratory Technicians by leading, directing, and assigning work
- Developing and mentoring subordinates
- Aiding in the R & D of new products
- Complete other tasks as necessary
- Product line management

## Education/Experience Requirements:

- Bachelor of Science Degree in Chemistry or Physical Science required. Master's Degree preferred.
- Minimum 3 years of industrial experience working in surface or colloid chemistry
- Agronomic or fertilizer background a plus
- Proficient in Microsoft Suite Software

- Ability to work independently with set directions
- Capability to succeed in a team environment
- Strong interpersonal and communication skills

## **Skills and Competencies:**

- Teamwork
- Leadership/Supervision
- Conflict Management
- Problem Solving
- Project Management
- Technical Skills
- Technical Service/Customer Focused
- Written and verbal communications
- Dealing with ambiguity
- Flexibility/Adaptability
- Creativity
- Planning
- Presentation Skills
- Priority Setting
- Managing through systems

## **Special Challenges:**

- Fast paced work environment requiring innovative responses to meet evolving customer needs

## **Organizational Framework:**

- This position reports to the Global Director, Mining Chemical Technologies
- This position currently has 0 direct reports but may have up to 1-2 direct reports
- Up to 25% travel
- Advises, leads, consults and coordinates with:
  1. Customers
  2. Field Tech Service team
  3. Account managers
  4. Sales managers
  5. Operations team
  6. Peers on other Research Teams

## Physical Requirements/Working Environment:

- Working environment is in a chemical facility. The job requires some physical work that can involve routine lifting up to 50 lbs, climbing, bending, stooping, crouching, and standing for long hours
- Creating a safe hazard free laboratory work environment

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Please include the position title and your name in the subject line.

ArrMaz participates in E-verify. Go to <https://www.uscis.gov/e-verify> to learn more.

ArrMaz is committed to providing equal employment opportunity for all persons regardless of race, color, religion, sex, age, marital status, national origin, citizenship status, disability or veteran status.