

## **Product Development and Application Chemist/Engineer**

San Diego, CA – Full-time on-site employment only.

*Please send your resume to: [klt@kingleetech.com](mailto:klt@kingleetech.com).*

Only candidates with the permanent right to work in the US will be considered. Unable to sponsor or transfer work visas.

### **Position Summary**

King Lee Technologies is the leader in Reverse Osmosis System Performance Chemistry for the production of high purity water. We are seeking a full-time chemist or chemical engineer with a background in formulating, testing, and applying advanced chemistry to control and safely remove foulants and mineral scales from semipermeable surfaces. This person shall have an M.S. or Ph.D. degree in Chemistry or Chemical Engineering with a working knowledge of reverse osmosis, ultrafiltration, and microfiltration technology. The position will report to the Director of Engineering and Product Development.

This role will enhance the existing vision of King Lee Technologies as a water treatment industry leader. The key features of this position are: managing the King Lee Technologies proprietary product line, fulfilling product development launches, and supporting domestic and international customer water chemistry needs as part of the Technical Team.

### **Qualifications & Skills**

- M.S. or Ph.D. in Chemistry (or Chemical Engineering with proficiency in application chemistry) Experience may be considered in lieu of an advanced degree.
- Preferred 5 years of professional experience in at least one of the following: formulation development, application chemistry, QA/QC, account management, or consulting.
- Expert application of inorganic chemistry, solubility limits, phase equilibrium, fluid dynamics, water treatment chemistry, and laboratory best practices.
- Demonstrated strengths in time management with demands from multiple directions, managing progress on multiple projects simultaneously while prioritizing under pressure, staying organized and results-driven, and maintaining accountability to self-established deadlines.
- Able to learn quickly, to take initiative and to work independently with limited direction, while remaining a team player through collaboration, seeking expertise, and taking direction.
- Excellent written and verbal communication skills, including publication and presentation, toward effective cross-functional relations and translating difficult concepts clearly for diverse audiences.
- Skilled at strategy, problem solving, troubleshooting, and researching information quickly and efficiently toward conclusion and action.
- Experience in developing procedures and recordkeeping to improve efficiency.
- Highly skilled in MS Office Suite: Word, Excel, PowerPoint.
- Strong sense of respect, integrity, and personal investment in professional contribution.

## Responsibilities

### *Product Application*

- Collaborate with Engineering and Sales as a lead chemist for domestic and international product and application support: answering water chemistry questions, making recommendations for products and methods, and providing chemistry input toward problem diagnosis and resolution.
- Contribute to domestic and international customer support through evaluation of customer information and interpretation of laboratory analyses (e.g. C, H, N, and Ash, SEM/EDX, raw water analyses) to determine remedial actions and opportunity for innovation.
- Design and manage pilot- and full-scale case studies to qualify and optimize current and developing products and services. (May require occasional domestic and international travel.)
- Implement training at customer sites to instruct managers and operators in the proper use of chemical products and services including, but not limited to anti-scalants, anti-foulants, and membrane cleaners. Trainings will range from casual training discussions during customer site visits to seminars, webinars, and industry-wide conferences.

### *Product Development and Stewardship*

#### Product Line Management

- Act as a chemistry partner for OEMs and engineering companies in the pursuit of understanding of new trends and innovations related to the chemistry of water treatment.
- Champion in-development products for access to the market.
- Preserve proprietary formulations and adjust/create formulations based on customer needs, change in raw material quality, availability, or price, and perform recordkeeping accordingly.

#### Regulatory Management and QA/QC

- Ensure industry and regulatory compliance for product formulations, labels and Safety Data Sheets according to permits, customs, and customers requesting product information, such as proprietary formulation, toxicity, corrosive properties, etc.
- Develop and maintain product toxicity file.
- Define and uphold raw material and product specifications for QC, inspecting accordingly.
- Coordinate with contract blenders as contact for formulation and QA/QC.
- Analyze, resolve, and document product quality complaints.

#### Lab and Office Practices

- Apply, update, and prepare laboratory SOPs with up-to-date test methods for product support.
- Maintain laboratory, equipment, and chemical inventory. Order chemicals and supplies.
- Prepare professional and scientifically accurate research notebook and other documentation of laboratory activities.
- Adhere to safe work practices, including appropriate handling and documentation of hazardous chemicals and waste.
- Communicate effectively and respectfully with customers and colleagues, both orally and in writing, to maintain effective working relationships.
- Demonstrate initiative in maintaining accountability to supervisor and Project Managers.