

## Product Development Chemical Engineer Summary

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Michelman is a global developer of water-based barrier and functional coatings for flexible film packaging, paperboard and corrugated cartons; and water-based surface modifiers, additives and polymers for numerous industries including wood care, industrial coatings, inks, fibers, composites and construction products. Michelman services its multinational and regional customers with production facilities in the United States, Europe and Singapore, and a worldwide network of highly trained field technical support personnel.

Currently, we have a new opportunity available for a **Product Development Chemical Engineer** to join our New Technology team. This position will be located in our Blue Ash, Ohio Corporate Global Headquarters.

This position is responsible for recognizing and presenting new chemistries of value to the business units in order to attain alignment and sponsorship. People skills, demonstrated creativity, chemistry knowledge and principles of manufacturing concepts are requirements.

The primary focus will be on idea generation, product design involving new chemistries and new methods for realizing such chemistry that will enable Michelman to help our customers win and grow. Successful execution of job duties involves three phases:

- (a) Identification of new chemistries and the processing methods to realize them
- (b) Collaboration with Supply Chain in evaluation of such chemistries and methods development through the pilot phase
- (c) Consultation in the implementation and validation of such chemistries and methods to Supply Chain at the commercial stage.

To optimize chances of success, this position will be expected to embrace open innovation practices by meeting with customers to determine their unmet needs and with raw material suppliers and other partners who may be able to provide nontraditional solutions. The success of this position will be measured by the creation of products for our customers.

The responsibilities of this position will include:

- Evaluate other chemistries for fit to present and future unmet market needs as identified by the business units
- Visit with suppliers, academic institutions, research centers, and customers on a global basis to identify new chemistries or modification of existing chemistries that will benefit our customers
- Work in collaboration with Supply Chain in providing input and advice on the design of manufacturing methods foreign to Michelman to facilitate use and implementation of newly found chemistries
- Conduct and oversee research and development work on pilot units as may be installed to support efforts around material conversion and alternative mechanisms uncovered
- Employ Open Innovation tools and practices in the course of work performed
- Perform research on the bench as needed to support efforts undertaken
- Be knowledgeable in the chemistry and testing protocols used for each business unit
- Attend Project Review meetings held by each business unit
- Be a mentor to others within the department

The preferred candidate will have:

- Bachelors of Science in Chemistry with 5 years of applicable experience; prefer Masters or Ph.D in polymer or organic chemistry with a minimum of 10 yrs. of practical materials manufacturing experience
- Demonstrated proficiency in designing experiments, coordinating trials, and documenting results
- Strong project management skills and training
- Experience in the design of chemical processes or project management desired
- Practical knowledge of chemical processing such as fluid flow, thermodynamics, chemical kinetics, and equipment typically used to make emulsions of resins, waxes and polymers
- Working knowledge of polymer, wax, surfactant and resin chemistry
- Familiar with and able to interpret data from laboratory testing equipment such as, e.g., DSC, TGA, Rheometer, FTIR, and Melt Flow tester
- Ability to generate professional presentations using PowerPoint or other appropriate software
- Ability to write professional articles for public dissemination and to discuss theory and practice in a manner commensurate with the audience
- Familiar with the concepts and tools used in Open Innovation
- Demonstrated use of creativity leading to innovative solutions that result in product sales
- Familiar with global regulations around product development such as inventory and food contact
- Flexible and able to change direction or focus on short notice without difficulty
- Strong ability to identify problems, root cause and preventative measures
- Able to work hands on, gather data or work on batches on the bench or pilot plants as needed
- Proficient in standard business office software
- Proven ability to think independently and handle multiple projects to completion
- Ability to write government grant proposals as pertinent and to act as Primary Investigator on such grants

Michelman is proud of its unique work environment that we have. We pride ourselves in our commitment to our values of integrity, respect and success. Selected candidate will have a rigorous onboarding experience with a continued commitment to technical and professional development. We offer an excellent salary, incentive and benefits package in a progressive, empowered team environment.

**To apply**

Resume and cover letter with salary history and requirements can be e-mailed to:

**Ken Wigton**  
HR Manager  
[careers@michem.com](mailto:careers@michem.com)

*No relocation will be provided – no phone calls please. Michelman does not hire individuals who use tobacco products. All candidates will receive a drug test prior to beginning employment which will include a test for tobacco products.*

*Michelman is an Equal Opportunity Employer M/F/D/V*