

## MATERIAL APPLICATIONS ENGINEER - Polymers



**Who We Are:** MITO Material Solutions is a cutting edge specialty chemical startup that manufactures hybrid polymer modifiers that make thermoset and thermoplastic polymer composites more durable, lighter, and more sustainable.

As a polymer focused Material Applications Engineer, you will develop existing and new applications of our hybrid chemical additives within customer-supplied polymer products designed for use in fiber-reinforced polymer composites and thermoplastics. You will act as a cross-disciplinary interface with both the sales team and potential customers to assist in technical sales, as well as troubleshooting with MITO's customers as the need arises. We are looking for someone to use data-driven methods to make recommendations to customers, review and respond to specific technical inquiries and develop new applications.

**If you meet the requirements and are interested in this position please send your resume to [info@mitomaterials.com](mailto:info@mitomaterials.com)**

### RESPONSIBILITIES:

- Develop hybrid-materials, make composite materials, and study the atomic structure of materials in order to discover new applications for their mechanical and chemical properties.
- Designs and participates in rapid prototyping procedure to qualify and quantify MITO in different polymer materials
- Develop and conduct experiments using different polymeric materials on Instron according to ASTM standards and construct performance evaluation metrics deliverable to business leaders and outside stakeholders
- Develop and implement novel material solutions to improve performance and efficiency in different applications
- Engage in root cause failure investigations as a subject matter expert for failure mechanisms
- Support polymer material property development by collaborating with design engineers to establish required design inputs and developing allowable for any gaps identified in the data set
- Interaction with all aspects of engineering, R&D, business development, and production personnel on a regular basis
- Support analysis of failed attempts and makes recommendations for corrective action
- Interface with customers and sales to identify and develop various product features that customers value and provide technical documentation to support
- In-person support of customer presentations, meetings, trials, and production troubleshooting
- Maintain testing equipment and lab according to standard OSHA and ISO standards
- May be required to perform other related duties as assigned

### REQUIREMENTS:

- Master's Degree or PhD in Chemistry, Chemical Engineering or Materials Science with a minimum of 3 years relevant experience OR equal amount of commensurate experience
- Experience in polymer characterization techniques and equipment, including SEM-EDS, FTIR, DSC, TGA, LFA, rheometry, optical microscopy, hardness testers, cross-section sample preparation and mechanical property testing
- Hands-on industry experience in application development of epoxy polymers
- Advantage if experience includes application development of thermoplastics
- Strong technical skills in design of experiments, data gathering, statistical and engineering analysis and evaluation
- Experience in customer-facing roles such as technical support or technical sales is very desirable.
- Ability to work independently and with cross-functional teams
- Ability to manage multiple projects independently with strong project management skills
- Strong interpersonal, verbal, and written communication skills
- Ability to travel up to 25% of the year and willing to work full time and be based in Stillwater, OK
- May be required to lift, carry, push or pull up to and including 25 pounds
- Highly motivated, proactive, optimistic, self-starter attitude

Additional Requirements: To conform to U.S. Government technology export regulations, including the International Traffic in Arms Regulations (ITAR) you must be a U.S. citizen, lawful permanent resident of the U.S., protected individual as defined by 8 U.S.C. 1324b(a)(3), or eligible to obtain the required authorizations from the U.S. Department of State. MITO Material Solutions is an Equal Opportunity Employer; employment with MITO Materials is governed on the basis of merit, competence and qualifications and will not be influenced in any manner by race, color, religion, gender, national origin/ethnicity, veteran status, disability status, age, sexual orientation, gender identity, marital status, mental or physical disability or any other legally protected status.