ANDREW **LARRIGAN**

Senior Consulting Engineer

Andrew Larrigan, Senior Consulting Engineer at Modality Solutions, manages the Advantage Transportation Simulation Laboratory™ which provides valuable data on the impact of five environmental hazards (temperature, humidity, pressure, shock, and vibration) on the critical-to-quality attributes of biologics, pharmaceuticals, gene and cell therapy, and combination medical device products. He helps with the design and execution of a variety of distribution and thermal studies.

His main tasks include:

- Designing and conducting transportation simulation testing
- Coordinating testing, calibration and preventative maintenance for the Advantage Transportation Simulation Laboratory™
- Conducting product-specific supply chain risk assessments
- Selecting and implementing thermal packaging applications
- Writing and updating Standard Operating Procedures, Packout Instructions, Work Instructions and Forms
- Writing protocols and reports for testing

Andrew has worked on projects in support of clinical trial operations in developing nations. Andrew was one of several engineers that traveled to developing countries to evaluate and implement mitigations strategies for cold chain distribution of life-saving vaccines and treatments. Andrew traveled to Liberia in West Africa during the Ebola epidemic in 2016.

Using his problem-solving communication skills, Andrew assists the team with his feedback and analysis. When clients are dealing with cold chain challenges, Andrew helps them find solutions. Andrew helps customers understand what testing needs to be done in their specific situations. Using the results from a risk assessment of each supply chain, Andrew helps design the needed transport simulation to ensure product quality through distribution.

Affiliations

AIChE (American Institute of Chemical Engineers)
ASTM International
ISTA (International Safe Transit Association)
PDA (Parenteral Drug Association)

Education

Bachelor of Science, Chemical Engineering   The Ohio State University

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