

MATTHEW COKER

Consulting Engineer



Matthew provides design and validation engineering services for the life sciences industry. He strategically creates the proper validation strategy for a client's cold chain systems through risk and gap analysis. He designs and executes validation master plans by creating standard operating procedures and qualifying critical equipment and thermal packaging. He serves as your development team's project manager and technical liaison for new drug product transport simulation test design, risk assessment, and protocol development.

Matthew writes and updates Standard Operating Procedures for cold chain-related processes that meet regulatory requirements and drafts protocols and reports for testing and process validation. In addition, he conducts testing for thermal packaging and transportation lane qualifications for environmentally sensitive drug products in Modality Solutions' proprietary transport simulation testing laboratory.

Recognized as a UT College Scholar, Matthew received his Bachelor of Science degree in Biomedical Engineering with a technical emphasis on cellular and biomolecular engineering as it relates to regenerative medicine at the University of Texas at Austin, Cockrell School of Engineering. He also has a minor in Business Administration from the U of T McCombs School of Business.

While at UT, Matthew worked on a sponsored project for Denver-based Innolitics, a medical imaging applications software development firm. He helped create a deep learning model using a convolutional neural network to detect lung nodules. In addition, Matthew participated in a COVID-19 Prone Monitor Project where a device to monitor the orientation of patients in the prone position to treat patients was developed. It included disease research, stakeholder interviews, market analysis, engineering requirements, and creating/implementing validation tests to ensure the device satisfied customer needs.

Matthew is proficient in Python, C, R, MATLAB, Assembly Language, LabVIEW, and SOLIDWORKS.

Education

Bachelor of Science in Biomedical Engineering,
Minor in Business Administration

University of Texas at Austin