

# Lipo Technologies Englewood Facility Design

*Englewood, OH*

## Project Description

Due to expanding needs for production, Lipo Technologies made the decision to purchase and renovate an existing building in Englewood, OH, in order to relocate their existing facility. Tri-Tech worked with Lipo to determine a new layout for their existing production equipment in the new facility, in addition to designing infrastructure for the new processes.

The new facility was designed to support use and storage of hazardous materials, including special requirements for fire, explosions, and spill containment. Additionally, the design incorporated a new cleanroom area and laboratory areas for product testing and research and development.

Tri-Tech utilized some of the existing building utility infrastructure where possible, and added and modified systems as necessary to accommodate the new functions of the building. Mechanical systems added new roof top units, compressed air and steam systems, and chilled water piping system. Plumbing systems included sanitary piping for a separate effluent tank for hazardous fluids, and specialized containment for hazardous chemicals. Electrical systems utilized the existing main service distribution and added bus duct distribution with multiple connections for new processes, in addition to replacing much of the interior lighting in the building. Structural work included modifying foundations for new equipment and replacing existing loading dock infrastructure to allow for hazardous chemical containment.

Tri-Tech also acted as the project administrator for the owner, and developed contract and bidding documents for sub-contractors.

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**Construction Completion:** 2014  
**Construction Cost:** \$2,430,000  
**Size:** 81,250 SF  
**Tri-Tech Services:** PMES Engineering,  
Project Management,  
Contract Admin.  
**Reference:** Eric Towers  
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