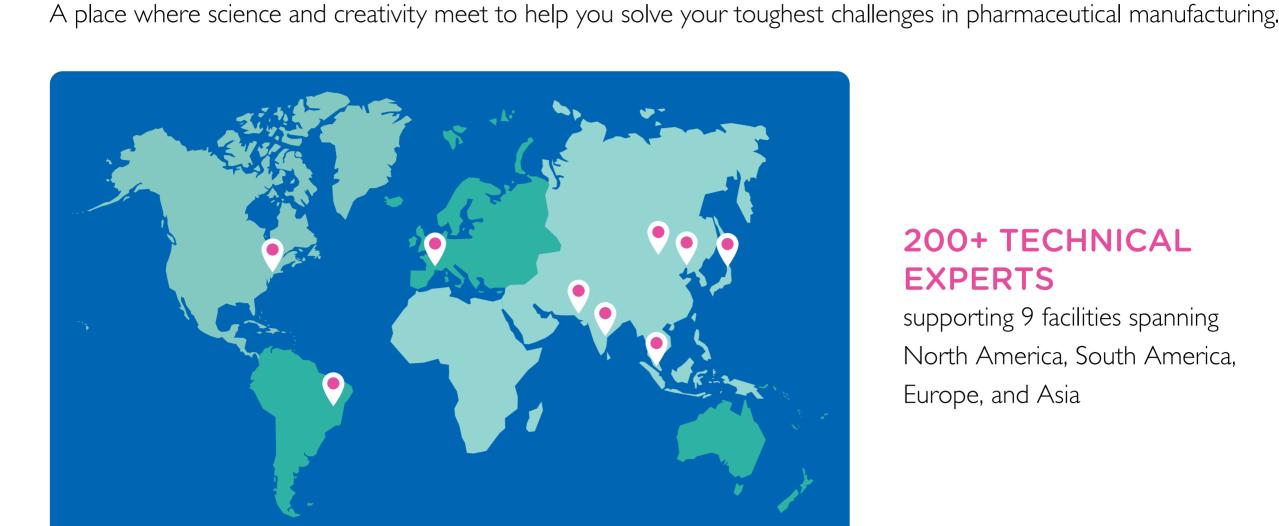


Collaborate for Success in Pharmaceutical Manufacturing

With the M Lab™ Collaboration Centers' flexible, non-GMP environment and global network of technical expertise, you can solve your toughest problems, from adoption of single-use technologies to virus detection and removal, and expansion in emerging markets.

The M Lab™ Collaboration Centers



200+ TECHNICAL **EXPERTS**

supporting 9 facilities spanning North America, South America, Europe, and Asia



20,000+ SQUARE FEET

of non-GMP workspace where you have the freedom to experiment



13,000+

process troubleshooting and deviation investigation hours saved annually for you



10,000+ HOURS

of operator and optimization training courses delivered annually

COLLABORATE

to Solve Your Toughest Single-Use Challenges

SINGLE-USE BIOPROCESSING MARKET TO REACH \$5.9 BILLION BY 2024

Single-Use Implementation Success Story



Customer Challenge The customer needed a single-use

automated skid for their TFF process, but all standard systems in the industry were unable to give them the performance they needed for their application.



The team invited the customer to

Solution

the local M Lab™ Collaboration Center, simulated how the single-use tubing and assemblies could manage the high process flowrate that the customer required, and demonstrated how the Mobius® mixer could be customized for their unique TFF process.



Outcome The live process simulation gave

the customer complete confidence that the Mobius® mixer was the right solution for their TFF process, and they were able to pair the mixer with their existing skid.

Virus Safety Success Story

Challenge Is Too Great

No Virus Safety

\$1 BILLION:



POTENTIAL COST OF CONTAMINATION

data for the new virus barrier filter with their media, but did not have

Customer Challenge

The customer needed scalability

sufficient resources or facilities to conduct the testing themselves.



Lab™ Collaboration Center and

conducted a scalability study using the customer's media. TOP BARRIER



designed and performed pilot-scale studies in the USA and ultimately

transferred these to large-scale operations in Singapore.

Bringing Efficiency to

Emerging Markets

Emerging Markets Success Story

TO ENTERING EMERGING MARKETS IN 5 YEARS

IS ACCESSING AND RETAINING SKILLED LABOR

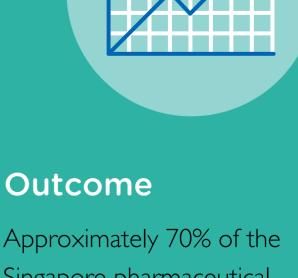
Solution **Customer Challenge**

With a biotech boom on the horizon, the Singapore government

identified the need to attract, develop, and sustain a highly skilled workforce for the biomanufacturing industry.



The M Lab™ Collaboration Center's team of experts worked with the local government and the Workforce Development Agency (WDA) to create a training program aimed at enhancing the skills set of the local workforce.



Singapore pharmaceutical workforce was trained by our experts and 80% of those people are employed in manufacturing operations today.

http://www.emdmillipore.com/mlabs

Plan your visit to an M LabTM Collaboration Center at

#MLabCollaboration

http://www.eiuperspectives.economist.com/healthcare/changing-biopharma-risk-equation https://www.transparencymarketresearch.com/single-use-bio-processing-systems-market.html