

"Global Leaders in Technical and Engineering Consulting Services for cGMP Manufacturing Facilities, Laboratories & Support Infrastructure"

"Your Experts in cGMP Compliance"



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Spain | France | Germany | Switzerland | Austria | Italy | Belgium | Ireland | Denmark | Brazil | Singapore | Taiwan | Malaysia | Canada | USA | Puerto Rico

Company Overview

Executive Summary



PharmEng Technology is a global ISO certified Pharmaceutical Compliance Consulting Firm with projects around the world providing quality services to the manufacturers of pharmaceutical and health care products for over 26 years.

Our 300+ global consultants have expertise in Commissioning & Qualification, Validation, Quality Systems, Regulatory Affairs, Engineering, Medical Devices, Modular Cleanrooms, Toxicology, Thermal Mapping and Training.

PharmEng Technology is a cGMP compliant leader with international offices in Canada, Brazil, Spain, France, Germany, Switzerland, Austria, Italy, Belgium, Singapore, Malaysia, Indonesia, Taiwan, Ireland, Denmark, and USA and maintains strategic partnerships for extended capabilities internationally.

"Global Leaders in Technical and Engineering Consulting Services for cGMP Manufacturing Facilities, Laboratories & Support Infrastructure"

PharmEng at a Glance

- ✓ 26 Years Consulting
- ✓ Pharma and Life Science Focused
- √ 300+ Consultants Globally
- √ 25 Offices in 20 Countries
- ✓ ISO Certified
- ✓ Diversified Clients and Capabilities
- ✓ Flexible to work multiple ways

Company Milestones





Kneat Partnership





PharmEng Technology is a trusted Kneat Platform Partner. As a Platform Partner we're qualified to provide project- based services and ongoing managed services and support in Kneat Gx for any organization.

We can provide document development and execution, template and property management, process scaling to new sites, new process setup for our customers, and ongoing support to users.



Reduces equipment changeover time by as much as 85%*

*Found in the following independent customer benchmarking study. Used Kneat for: Commissioning & Qualifi cation, Equipment Validation



Reduces validation life cycle time by over 50%*

*As found by mutiple independent customer benchmarking studies. Used Kneat for: Commissiong & Qualification

Vision / Mission / Goals





VISION

To bring the most efficient, innovative, and quality solutions to clients to be delivered in a timely and effective manner.



MISSION

To provide unparalleled value to our clients to attain regulatory compliance and maintain a competitive advantage in a dynamic regulatory environment under our "Quality Policy."



GOALS

To assist Pharmaceutical, Biotechnology, Medical Devices and Nutraceutical companies to achieve optimal time-to-market of their pipeline products.



EXECUTIVELEADERSHIP TEAM

MAY 2023



Alan Kwong



Legal Counsel
Jeffrey Shek



Executive VP & Managing Director, Canada

Alex Della Mora



Executive VP & Managing Director, Americas & Ireland

Bruce Craven



Executive VP, Managing Director, Asia

Kenny Peng



Managing Director, Europe

Luiz Grasso



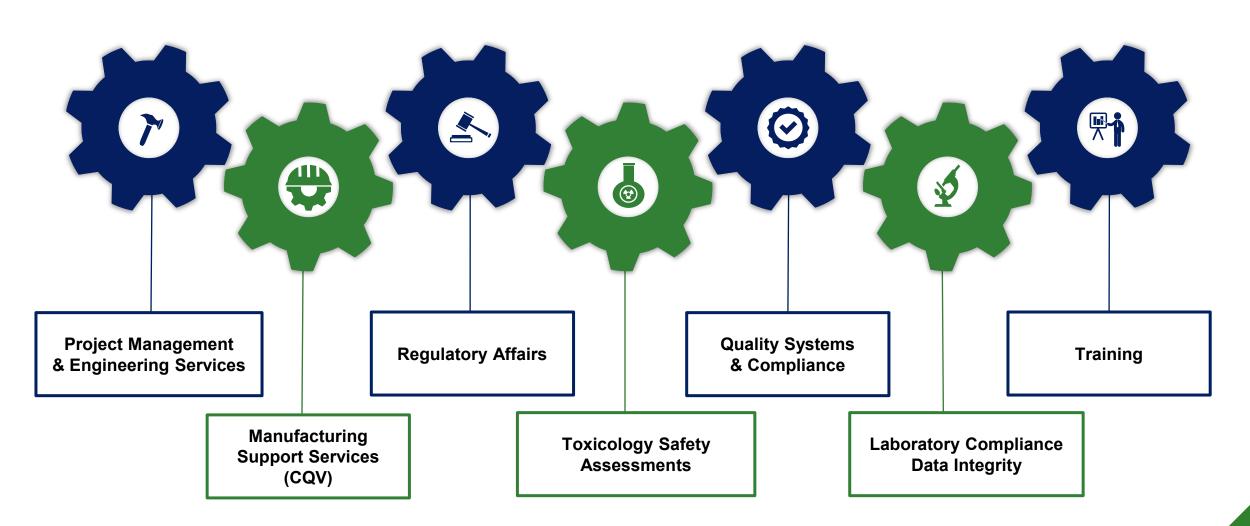
Controller

Alice Wang

Our Services



"We support our clients with rapid, reliable and high-quality consulting services."



Our Services



Biotechnology

Pharmaceuticals

Medical Devices

Cannabis

Project Lifecycle

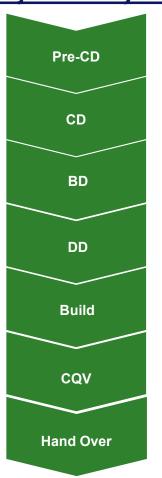








Validation



Product Lifecycle







Lab Compliance Services



Quality Compliance



Toxicology Assessment



Our Services



"We support our clients with rapid, reliable and high-quality consulting services."

TECHNICAL SERVICES

COMMERCIAL SERVICES

SPECIALTY SERVICES

- GMP/GLP: Engineering, QMS, QA, compliance, validation, supplier audit
- Drug Development: CMC, validation, Scientific Affairs
- Project Management
- US, Canada
- China, Taiwan, Hong Kong South-East Asia
- Europe
- Multi-market regulatory and market strategy
- International projects: Technology transfer
- Consent decree, serialization
- Professional Training
- International projects: Technology transfer

Our Services (continued)



Project Management & Engineering Services

- Occupational Health & Safety Management
- Facility, Process Planning & Design
- Modelling, Simulation and Scheduling
- Budget & Cost
- Risk Assessment
- Bio-Pharmaceutical Process Engineering
- Environmental Impact Management
- Automation & Process Controls

Manufacturing Support Services



- Commissioning / Qualification / Validation
- Technology Transfer
- Process Validation
- Manufacturing Systems
- Cleaning Validation
- Facility / Utility / Equipment / Instrument
 Qualification
- Computer System Validation (CSV)
- Packaging
- Data Integrity Assurance

Our Services (continued)



Regulatory Affairs



- Master File Preparation (DMF, SMF, MFA, VMF)
- eCTD / CTD Submission
- Prepare & Submit Post Approval Reports
- Establishment Registration & Renewal
- Product Assessment & Regulation
- Regulatory Strategy & Intelligence
- CMC Preparation
- Pharmacovigilance

Toxicology Safety Assessments



- Toxicology Data & Safety Assessment
- Hazard Identification Safety Assessments
- Critical Effects Evaluation of Chemicals & Potential Effects
 (ADEs, PDEs, OELs)
- Determination of No Observed Adverse Effect Level (NOAEL)
- Uncertainty & Modifying Factors
- Pharmacokinetic Adjustment(s)
- Cleaning Validation Development & Support
- Extractables & Leachables
- Safety Development & Training

Our Services (continued)



Quality Systems & Compliance



- Quality Management Consultation & Training
- Gap & Quality Performance Analysis
- Audit & Inspection Management
- ISO & cGMP Implementation
- Quality System Documentation
- Risk / Crisis & CAPA / Deviation Management
- Environment Monitoring
- ALCOA+ Assessment
- Dealing with Regulatory Organizations (FDA, EMA, AEMPS, etc.)
- Trackable & Traceability Projects for Unforeseen Incidents

Laboratory Compliance



- Method / Assay Validation
- Documentation Audits, Review & Remediation
- Documentation Traceability & Review

Training



- Qualification: Computer / Cleaning / Process / Equipment /
 Utilities
- RA: Biotechnology, Pharmaceuticals & Medical Devices
- QA: Audit Programs & CAPA
- cGMPs/GLPs: FDA, Health Canada and EU

Toxicology

Toxicology Product Assessment



- · Product Characterization
 - API or product Mechanism of Action (MOA)
 - Pharmacokinetics absorption, distribution, metabolism, excretion (ADME)
- · Disease or Ailment Etiology
- Summary of Pre-Clinical & Clinical Trials (if available)
- Summary of Personal Protective Equipment (PPE) for worker safety
- Determination of Manufacturing Product vs. Single Use Technology (SUT)
- Risk Assessment of Product, Health-Based Exposure Limit (HBEL) – Categorization of Overall Toxicity and Permitted Daily Exposure (OEL, µg of API/day) (Data Permitting)
- Safety Training Provided Per Request
- Regulatory & Governance Documents Guidance

Extractables and Leachables

- Evaluation of potential of E&L across manufacturing process by a board-certified toxicologist (DABT)
- Provide assessment of materials & contact chemicals that will not elicit E&L along with list of materials & contact chemicals in which production of E&L is unknown & requires further investigation
- Document all findings via a report & table/spreadsheet
- Zipped file of all references uses in evaluation



Workers Compensation Expert Consulting

- · Verbal preliminary case review
- Written evaluation with conclusions supported by weight of evidence
- Impairment determination based on quantitative (amount) data from blood samples
- · Zipped file of all references used

Cleaning Validation



- Aligning cleaning validation with toxicological evaluation to meet regulatory expectations
- Implementing results in compliance, and patient safety.
- Modernize cleaning programs focus on patient safety and must include health-based exposure limits (HBEL)
- Customized solution for your CV Master Plan
 - Cleaning Process Design & Development
 - Cleaning Process Performance Qualification
 - Cleaning Process Verification
- Author/revise CV SOPs
- Evaluate toxicity of biopharmaceutics, therapeutic proteins, chemicals, and active pharmaceutical ingredients
 - Determine No Observed Adverse Effect Level (NOAEL)
 - Calculate Permitted Daily Exposure (PDE)

Case Studies





QUALITY COMPLIANCE

Pfizer Michigan

Client: Pfizer USA – Michigan

CQV & Automation

Project Type: Biologic, Vaccine &

Gene Therapy



Responsibilities:

- ✓ Automation & Verification Leads
 - ✓ Automation Controls
 - ✓ Aseptic Environment
 - ✓ Production Line
 - ✓ Formulation, Filling, Freeze
 Drying

- ✓ System Verification
- ✓ Auditing, Testing & Failure Investigations
- ✓ Equipment Startup & Support
- ✓ Configuration Checks
- ✓ Engineering Documentation

Provided over 35 consultants for on-site solutions to support rapid expansion and rollout of vaccine technology. Delivered SMEs in automation controls and aseptic environments, verification engineers & automation engineers. Assisted in verification of automation controls, troubleshooting, configuration, and updating documentation



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Pfizer Michigan

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Pfizer

Rocky Mount, USA

Process Engineering Support and Compliance Review

- Author and execute product study protocols
- Follow-up with partner functions (e.g. analytical testing labs, operations, validation) to ensure on-time completion of deliverables. Per guidance from Tech Services establish process parameters, timers, run rates, material flow, etc. as needed
- Assisting in documenting changes/updates to manufacturing processes and working with manufacturing, engineering and validation to implement those changes
- Supporting as a core team member responsible for coordinating and identifying Regulatory and Compliance Remediation activity plans related to product transfer

POF

COPE



Rocky Mount, USA

- Support the technology transfer process team on activities related to successfully transferring current marketed drug product to a new external supplier manufacturing sites
- Serve as technical lead for gathering product knowledge, collating into easily analyzed formats, generating visual outputs of data and working with other project workstreams on requested deliverables
- Assist with generating knowledge transfer documents, technology transfer plans and other transfer related documents between sending / receiving sites
- Provide first level review of technical documents generated by receiving site and coordinate internal technical review of sending site / project SMEs
- Participate/lead cross-functional team meetings between sending and receiving sites. Generation of notes, output from meetings
- Support administrative activities for the workstream such as action/issue item tracking, generation of meeting minutes, coordination of focused working sessions between sending and receiving sites and follow up on actions
- Responsible for participating in schedule development and providing monthly status updates to master scheduler
- Interact with engineering, regulatory and laboratory workstreams

Pfizer

Sanford, USA

SERVICES

- Drug product Gap Assessments
- Drug Substance Gap Assessments
- Overseeing qualification efforts, change controls, program & process improvements in addition to day to day support
- · Piping Engineering support
- · Data integrity support
- · Change Control support
- · Process Engineering support

- Performing technical review for Operations
- Performing technical review of regulatory documentation
- Performing technical review of SOP and MBRs
- Provide technical support for the operations group

Madrid, Spain

Granada, Spain

Project Management & Engineering Services

OF WORK

SERVICES

- **Building Utility Systems Validation**
- Re-qualification Reports of Nitrogen, Compressed Air, WFI, **Purified Water and Clean Steam**
- **Equipment Qualification**
- **Filling Lines Qualification**
- **Change Management**

SCOPE

SCOPE

Quality Systems & Compliance

Madrid, Spain Granada, Spain

- **OF WORK** Internal Audit: Review of Annual Product Quality Review, Quality Records, Change Controls, Investigation Management, Product Approval, Trainings, etc.
 - Consulting focused on AEMPS, EMA and FDA Regulations
 - Supporting as a team member responsible for coordinating and identifying Regulatory and Compliance Remediation activity plans related to product transfer

(CI) ROVI

Madrid, Spain

Granada, Spain

SERVICES

Support in the Introduction and Production of mRNA Vaccines (COVID-19 variants, Flu, RSV)

- Tech Transfer Master Plan
- Validation Master Plan
- Validation Plans
- Process Description
- Cleaning Validation Plans, Protocols & Reports
- Cleaning Verification Plans, Protocols & Reports

(CI) ROVI

Madrid, Spain

Granada, Spain

SERVICES

Support in the Introduction and Production of mRNA Vaccines (COVID-19 variants, Flu, RSV)

- mRNA-1273 new vial fill qualification, new vials size qualification
- Media fill audit
- PPQ Protocols & Reports
- Inspected executed PPQ Protocols
- Stability Protocols

(CI) ROVI

Madrid, Spain

Granada, Spain

SERVICES

Support in the Introduction and Production of mRNA Vaccines (COVID-19 variants, Flu, RSV)

- In-Process Hold Time Protocol & Reports
- Buffer Hold Time Protocol & Report
- Continued Process Verification (CPV) Plan, Protocol & Reports
- Creation of SOPs
- Gap and Risk Assessments (GARAMP), complains and investigations

Madrid, Spain

Granada, Spain

SERVICES

Support in the Introduction and Production of mRNA Vaccines (COVID-19 variants, Flu, RSV)

- Assisting in documenting changes/updates and working to implement those changes
- Participate/lead cross-functional team meetings between sending and receiving sites and follow up on actions
- Project Management for COVID-19 variants qualification

Madrid, Spain Granada, Spain

- Good Documentation Practices (GDP)
- Visual Inspection focused on FDA, EMA, JAPAN Regulations
- Data Integrity, ALCOA assessment
- Nitrogen and Compressed Air
- Annex I of the EudraLex Volume 4 Manufacture Sterile

 Medicinal Products

SERVICES

PharmEng has provided the cGMP, engineering, validation, and design expertise to ensure that Sanofi facilities met regulatory requirements.

- Provided validation services & cGMP expertise new and renovated vaccine production and supporting facilities
- Provided expertise on vaccine production equipment validation (Includes bioreactors, fermenters, clean-in-place skids, column chromatography skids, and others)
- Completed a Cleaning Validation Project for a bin blending suite equipment



North America / Europe / Asia

- Computer Validation (New & Legacy Equipment)
- Equipment Validation
- Building Utility Systems Validation
- Warehouse Temperature Mapping
- Laboratory Instrument Validation
- Cleaning Validation
- Process and Cleaning Validation
- FDA PAI Audit

End to End Project Lifecycle





Sanofi Pasteur - Toronto

PharmEng has been consistently delivering high quality consulting services to Sanofi Toronto for

26 Years



Responsibilities:

- ✓ Equipment Validation
- ✓ Building Utility SystemsValidation
- ✓ Computer Validation (New & Legacy Equipment)
- ✓ Warehouse Temperature Mapping
- ✓ Laboratory Instrument Validation
- ✓ Cleaning Validation
- ✓ FDA PAI Audit

PharmEng has provided cGMP, engineering, validation, and design expertise to Sanofi

Toronto's state-of-the-art facilities for 26 years.

There are presently 65 PharmEng employees on site daily.

Commissioning, Qualification, Validation (CQV)

Synopsis of Multiple Pos for Large Projects

Client: Sanofi Pasteur

Location: Holly Springs, USA

Project Type: cGMP / Engineering / Design / Validation / Regulatory Affairs

Pricing Model: Time and Materials



Responsibilities:

- ✓ Computer Validation
- ✓ Equipment Validation
- ✓ Building Utility Systems Validation
- ✓ Warehouse Temperature Mapping
- ✓ Laboratory InstrumentValidation
- Process and CleaningValidation

Provided validation services & cGMP expertise new and renovated vaccine production and supporting facilities. Contributed expertise on vaccine production equipment validation (includes bioreactors, fermenters, clean-in-place skids, column chromatography skids, and other). Completed a Cleaning Validation Project for a bin blending suite equipment.

CQV & Automation





Sanofi USA: Swiftwater and Framingham



Swiftwater, PA

Framingham, MA



Responsibilities:

Swiftwater, PA

- ✓ Computer System Validation
- ✓ Equipment and Instrument Validation
- ✓ Building Utility Systems Validation
- ✓ Warehouse Temperature Mapping

Framingham, MA

- ✓ Computer System Validation
- Manufacturing AutomationSystem Validation
- ✓ Data Integrity
- ✓ Auditing

Provided validation services & cGMP expertise new and renovated vaccine production and supporting facilities. Contributed expertise on vaccine production equipment validation (includes bioreactors, fermenters, clean-in-place skids, column chromatography skids, and other). Validation of MES and DCS. Auditing for UAR.



Colorado, USA

Novartis Gene Therapies

SERVICES

Process Engineering support for the Computerized Maintenance Management System (CMMS)

- Development of equipment and maintenance data
- Loading of data into CMMS
- Review and approval of CMMS data
- Support of spare parts identification
- Development of preventative maintenance plans



Colorado, USA

Novartis Gene Therapies

SERVICES

MS&T Support (MS&T deliverables support including protocol generation and execution, risk assessments and summary reports)

OPE OF WOR

- PPQ
- Comparability Studies
- Technology Transfer
- Cleaning Validation and related topics

SERVICES

Quality Systems & Compliance

Eurofarma

Itapevi, Brazil

- Internal Audit
- Supplier Audits (China, Mongolia, South Korea, Spain, France, Taiwan, The Netherlands, etc.)
- Quality Compliance Assessment

Design Engineering to CQV / Design-Build





Mycenax Cell Culture Facility

Client: Mycenax Biotech

Location: Jhunan, Taiwan

Project Type: Biopharmaceutical /

Interior Fit-Out

Pricing Model: Fixed Price



Responsibilities:

- ✓ Architectural Design
- ✓ Cleanroom and HVAC
- ✓ Procurement
- ✓ Construction Support
- ✓ Commissioning

- ✓ Qualification
- ✓ Process Validation
- ✓ Electrical Distribution
- ✓ Low Voltage / Extra Low Voltage
- ✓ Fire Protection System

The production line 3 of Mycenax Biotech in the current clean room P301 located on 1/F of No 6, Kedung 3 Road, is mainly planned to use a 50L fermenter for the upstream microbial fermentation process. An additional 200L microbial fermenter will be purchased, and room planning, and process flow will be adjusted to fulfil the requirement of the expansion of the production line's three-microbe upstream capacity. Simultaneously carry out downstream room expansion and W302 function modification.

Laboratory Compliance



Project Empower

Client: FujiFilm Diosynth

Location: RTP, USA

Project Type: Biologic, Vaccine &

New Drug

Pricing Model: Time and Materials



- Responsibilities:
- ✓ Modular IOQ Development for HPLC/LACe System
- Accommodate over Fifty Units
- ✓ Qualification

- ✓ IOQ Summary Reports
- ✓ Change Management Support

This global upgrade project involved the migration of multiple Empower linked lab equipment components to a new lab facility. Qualification services were necessary to facilitate the relocation of a number HPLC units equipped with LACe acquisition servers. Site representatives operated closely with a cross functional client team composed of Quality Control, Lab Automation, Lab Engineering and MT&S.

Multi-Stage Global Project





Multinational Medical Device Company

Client: ALCON

Locations:

Canada, USA, Malaysia, Indonesia



Responsibilities:

- Quality Systems Gap Remediation
- **Quality Assurance**
 - ISO 13485 Quality System
 - **SOPs Development**
 - Annual Product Review (CPAT)
 - Product Quality Management (PQM)

- ✓ Technology Transfer & Start Up
- ✓ Facility & Utilities Qualification
- Validation

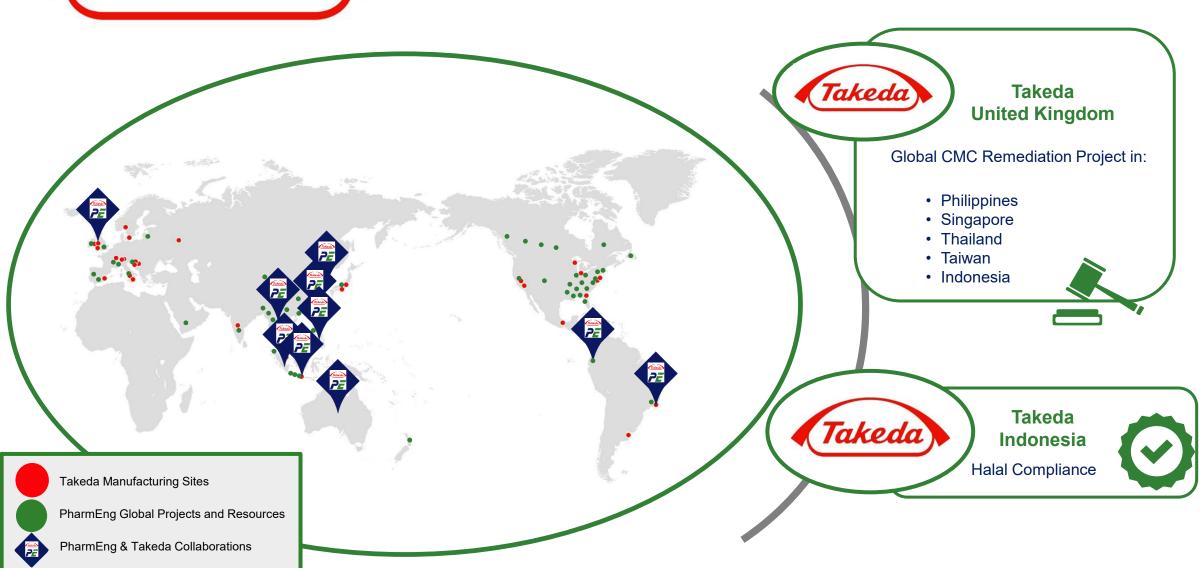
Managed Project deliverables and success. Installed 6 manufacturing/packaging lines.

Validated entirety of Process and Equipment.



Projects





Global CMC Remediation Project





Takeda United Kingdom

Chemistry, Manufacturing & Control CMC Compliance
Sub-Contracted by Takeda United Kingdom for:

- ✓ CMC Compliance Analysis ✓ Remediation
- ✓ GAP Analysis



5 Sites Inspected & Remediated

Countries:

- <u>Taiwan</u>
- Thailand
- Philippines
- Indonesia
- Singapore



SERVICES

Halal Compliance

Indonesia:

RDTX Tower 10th Floor, Jl. Prof. Dr. Satrio Kav. E-IV No.6,

SCOPE OF WORK

- Halal readiness preparation services
- Site has been Halal-approved
- Project Leader: Dody Tanusubandi



Validation Support Services

Singapore (formerly Baxter):
Woodlands Industrial Park D St 2, Singapore
737778

SCOPE OF WORK

- To be agreed
- Project starting in a few weeks



SERVICES

Qualification Services

Calfornia (formerly Baxter)

SCOPE OF WORK

Temperature Mapping Services

CQV



Takeda Indonesia

Client: Takeda Indonesia

Location: Jakarta, Indonesia

Project Type: Cleaning Validation



Responsibilities:

- Validation Plan
- Cleaning validation procedures
- Analytical detergent procedures
- Equipment cleaning SOPs
- Cleaning development protocol and reports
- Cleaning validation protocol and reports

Provided Cleaning Validation Support

Bioconjugates



COMPANY	COUNTRIES	BIOCONJUGATE	PROJECT DESCRIPTION
ROVI	Spain (2021-2023)	mRNA-LNP Vaccines (COVID-19, Flu, RSV)	 Stability studies. Tech Transfer from Moderna (Norwood, USA) and Lonza (Visp, CH). Process and Equipment Qualification & Validation – CPV. Audits.



Bioconjugates



- In PharmEng Technology we have extensive experience with both ends of the spectrum (biological and chemical manufacturing processes)
- Here we show a few examples in which we have worked globally involving those processes:

COMPANY	COUNTRIES	MOLECULE TYPE	PROJECT DESCRIPTION
₽ Pfizer	Canada, USA, Asia (Since 2005)	Chemical/Biologic	 Qualification & Validation of new Facility and Lines. CMC regulatory compliance.
FUJIFILM Diesynth biotechnologies	USA (Since 2018)	Chemical/Biologic	 Toxicology assessment. Facility expansion boosting Cell Culture manufacturing capacity by 25% and Microbial manufacturing capacity by 50%. Full IOPQ development and execution for all process equipment. Qualification Service in QC Equipment.
Alvogen	Taiwan, Iceland, Malaysia (Since 2014)	Chemical/Biologic/ Cytotoxic	 FDA pre-Audit preparation and QA remediation. Facility status quo Assessment. CQ support. Regulatory Affairs.
© Clarivate [™]	Asia (Since 2015)	Chemical/Biologic/ Medical Device	Regulatory Intelligence and Writing
O pharmacore	Taiwan (2019)	Chemical/Biologic/ Cytotoxic	GMP Audit and advisory for planned USA launch Confidential-R19 031621

Cell Gene Therapies



COMPANY	COUNTRIES	PROJECT DESCRIPTION
NOVARTIS	Canada, USA, UK, Ireland, Singapore, Malaysia, Indonesia (Since 2007)	 Long-term ongoing support in all quality, validation, and manufacturing aspects. Due diligence support for the Company's oversea partner acquisition.
Pfizer	USA (Since 2020)	Resources provided: Process engineers, Project engineer, Validation Remediation Work, Technical Writers and Investigators
Encoded > THERAPEUTICS	USA (Since 2021)	Project Management: Manufacturing & Technology Transfer
FERRING PHARMACEUTICALS	Denmark (2019)	 Feasibility study and conceptual brief for a biopharm facility. Process flow layout design and working with the architect on facility layout.
ARK Therapeutic Products	Finland (2017)	 Optimising of the production process. Identification of suitable suppliers for a process.

Swiss Medic



- We have been working in ROVI with the Swiss agency at the time to register the Moderna vaccines around Europe.
- This has been performed for 2 years (2021-2023)



Strengths



1) Experienced: Highly qualified, dedicated, and rapidly growing professional team



Professional...

Our **300+ consultants** are specialized in pharmaceutical, biotechnology and engineering industries. We are critically selective of our resources and maintain optimally experienced staff from entry level to SMEs.

Diversified...

Our company is a multinational company with staff providing services globally for **clients small to large**. Our international presence ensures we maintain our knowledge of regulatory practices and on the "cutting edge" of emerging trends around the globe.

Leadership...

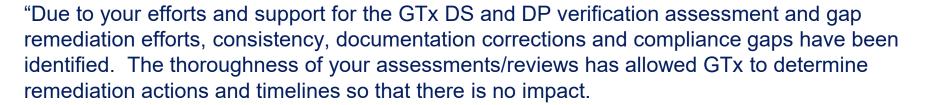
Our leadership team has multiple years of industry experience which allows us to be extremely agile and responsive to our clients. PharmEng has maintained an impeccable reputation **since 1997**, and will continue to do so.

Strengths (continued)



2) Efficient: Client focused service that delivers quality results on time and within budget

Testimonials...



You demonstrated the value of excellence in working as a Sanford team to ensure compliance which will lead to successful PAI and general audits in the upcoming years. There was a lot of time and effort put into these assessments and we thank you for your expertise and contributions."

- Pfizer

"I am very delighted to announce that we have completed the SoftMax validation project in QC Immunochemistry at Sanofi Pasteur. During this project, a total of 5 SoftMax templates were validated and implemented on time (before 31May2016).

This project has a big impact on our operations in Quality Control as it is directly related to the improvement of quality and efficiency for our department.

I am sending this email to personally thank PharmEng Technology for their unaccountable contribution in completion of this project."

- Sanofi Pasteur (Nirav Patel - QC Immunochemistry Manager)



Our Clients



Proven: Professionals in various multi-million projects every year





Certifications



ISO 9001:2015 - National Ministry Supplier Development Council





















Certifications (continued)





PE Resources / Projects in Europe and South America Per Pharmeng Technology







CONTACT INFORMATION

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