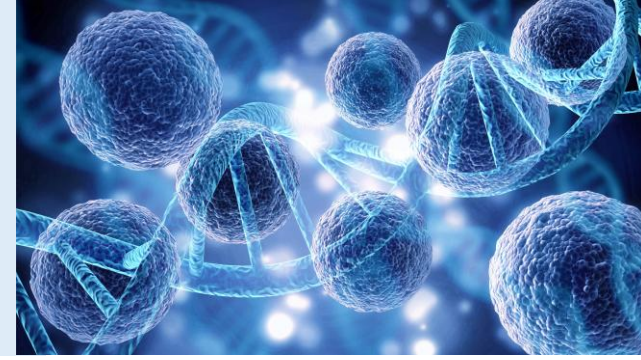




Providing technical oversight and client representative support to of the Biotechnology, Gene Therapy, Viral Vector, Cell Therapy, T-CELL, CAR T, mRNA, and Vaccine Industries since 2010

Our Vision

Focus on being the “Best” at providing Leading Edge Technical Solutions



- ✓ We leverage our extensive biopharma experience, the latest industry guidelines, and established regulations to provide quality solutions to our clients' complex problems
- ✓ PTSI professionals average over 15 years as 'the client.' We use this insider knowledge to anticipate our clients' needs and provide innovative solutions.
- ✓ Our commitment to excellence, work ethic, and drive supports the achievement of our clients' objectives. Our high performance and results have consistently generated client confidence in the US and Internationally for nearly 15 years.

Our Mission

Be the “Best” in providing High Quality, Compliant, and Proven Biopharmaceutical Solutions for our Clients



The Biopharmaceutical industry is highly competitive, costly, and ever-changing. Companies rely heavily on consultants for expertise and hands-on execution in all aspects of the business. Inexperienced consultants can negatively impact our clients' business

- ✓ PTSI has a vast array of in-depth knowledge and experience across all competencies in the biopharma space
- ✓ We specialize in providing experienced engineering, manufacturing, RCM, process development, quality control, project management, quality assurance and regulatory, and subject matter experts to support our clients

Our Experienced Biopharma Professionals



Steve Sandoval, CEO/ Operations Head
Over 30 years of experience in Biopharma including role of Chief Manufacturing Officer and licensure of commercial drug substance.



Mike May, VP of Manufacturing & Quality:
Over 25 years of experience in clinical and commercial manufacturing including upstream, downstream, and process transfers.



Raphi Hanessian, VP of Engineering
Seasoned professional with almost 30 years of experience in Biopharma (Amgen/ J&J). Managed Drug Product Facility CMO.



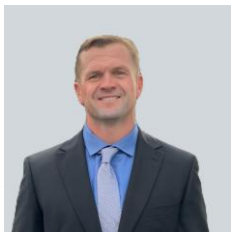
Barry Conner, VP of Quality Assurance:
Over 20 years of experience in Biopharma Quality Assurance with focus on quality system design and regulatory compliance.



Deisy Corredor, PhD: Sr. Director CMC Process Development
Over 20 years of experience in biopharma with focus on CMC process development, tech transfer, and process science.



Sara Pind: Plant Manager, CDMO:
Experienced MFG/ QA biopharma/ Cell Culture, and medical device with focus on all aspects of operations and manufacturing.



Mike McCalister, Director External Mfg
Over 20 years of experience in biopharma/ manufacturing with focus on external manufacturing and tech transfer.



David Qualls, Director of CMC:
Over 20 years of experience in biopharma leading external manufacturing in small and large molecule, DS/DP/FP and technology transfers to and from CDMOs.

Our Experienced Biopharma Professionals



Russ McKnight, Maintenance Manager/ CQV SME/ Sr. PM:

Biopharma professional with focus on commissioning, qualification, validation, and quality control.



Paul Malone, Director CQV:

30 years experience in biopharma specializing in CQV, Facilities, construction, project management, mechanical, electrical, and design.



Michael Paeltz: Director of QC/ QA:

Over 10 years of experience in biopharma with focus on QC Micro, QC Analytical, tech transfer and process development.



Erika Reid, Sr PM/ Design Lead:

Design lead in the biopharma industry with experience in creative conceptual design for large greenfield projects to redesign of brownfield projects.



Kimberly McDevitt Sr. PM/ Tech Writer:

Experienced GMP/ GDP professional with Technical Writing/ CQV/ CMMS applications experience

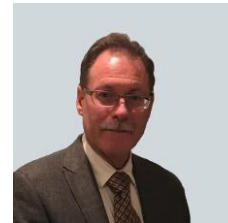


Eduardo Becerra, Director of Automation:

Automation and controls SME with over 20 years of experience specializing in automation and metrology, systems, CQV, and CMMS.



Kristin May, Sr. PM: Experienced Biopharma Executive providing PM Support with over 25 years of experience of increasing levels of responsibility in Supply Chain and Clinical Operations.



Jeff Hogan, VP of Process Development

Over 30 years of experience in biopharma with focus on process development, tech transfer, and IND/ BLA/ CMC filing.

Our Experienced Biopharma Professionals



Kelly Steffen Business Manager:
Supporting CFO in managing PTSI
Onboarding, Contracts, Invoicing, & Account
Payables



Steven Sandoval Jr. CFO:
Business professional with over 15 years of
experience in finance, business office
management, income taxes, and accounting.



Mark Field VP of Analytical Development:
Over 30 years of experience in analytical
development, PC, Product Stability, and
Validation studies (monoclonal antibodies,
proteins, biosimilars, vaccines, gene therapy,
and cell therapy products.



**Tim Valko VP of Supply Chain/ Tech
Operations:** Over 30 years experience in
operational leadership in the biopharma
industry (Biotech/ Cell Therapy)



Rick Lit VP of Regulatory/ CMS: 30 years
Regulatory Affairs and Compliance Leader in
Biotech and Pharmaceutical Industry. Former
VP at Amgen Global Regulatory team
focused on CMC



Biopharma Design, Construction, & CQV Oversight Client Rep, Project Management, Project Controls, MFG Operations Readiness, & CQV Support



PTSI provides the following technical solutions to ensure our clients' new MFG Facility produces products per EU and FDA/ ICH guidelines while staying within budget

- New MFG Facility Conceptual Basis of Design, Rough Order of Magnitude, High Level Project Schedule
- New Establish Design Request for Proposals/ Bidding Assessment, Project Schedule, and ensure project execution success by achieving project Key Performance Indicators\
- PTSI Client Representative drives Detail Design, Construction, and executes field Commissioning\
- Establish Validation Request for Proposals/ Bidding Assessment, and Validation project oversight\
- PTSI Client Representative provides oversight of the MFG Facility EMPQ/ MFG Operational Readiness

Our experienced biopharmaceutical Client Representatives offer flexible and dynamic solutions to drive each phase of the project. We employ strict project management principles to ensure on-time closure of deliverables.

Quality Control Laboratories & QC Labs Operational Readiness



PTSI has over 30 years of experience in the quality control field in the Biopharmaceutical space. Our SMEs have experience in all aspects of analytical and microbiological quality control from early phase through commercialization.

- EMPQ Readiness, Scheduling, Execution, Report, Supporting SOP Developing, and Project Management
- Analytical Method Development and Testing
- Analytical Method Transfer, Qualification, and Validation
- Product Characterization
- Development of Analytical Control Strategies
- LIMS Implementation

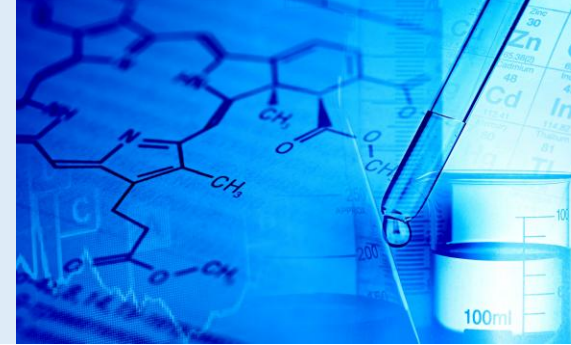
Quality Assurance



Our QA experts have experience in the field and as the client. These SMEs provide sound guidance based on best practices and all applicable regulations/ guidance.

- Development of Quality Manual and Quality Systems
- Experienced technical writers and PTSI library of SOPs, Protocols, and Reports
- FDA/ Regulatory PAI, Biennial, QP Certification, and Inspection Readiness/ Remediation execution
- QA CMO PIP review/ approval of manufacturing batch records, deviations, OOS, excursions, CAPA, change control, and protocols

Tech Transfer & Process Development



PTSI understands our clients' needs, goals, and strategy, and aligns those needs with our fully vetted CDMO partners to make a comprehensive recommendation

- Evaluation of client processes, needs, restrictions, limitations, budget, and timeline
- Audit, assessment, and approval of CDMO partners
- Scalability, phase, QC support and assay development, raw material sourcing, capacity limitations, quality strategy, supply chain, vendor qualification
- Process Definition and Technology Transfer Support
- Process troubleshooting and training
- Person-In-Plant to oversee transfer and ongoing manufacturing process

Regulatory & Compliance Support



Our Regulatory Compliance experts have experience in the field, as the client, and as ex-FDA investigators. These SMEs provide sound guidance based on best practices and all applicable regulations/ guidance.

- Support for regulatory submissions including BLAs, CTAs, and INDs
- Expertise in strategic lifecycle CMC development and world-wide regulatory interactions
- FDA/ Regulatory PAI, Biennial, QP Certification, and Inspection Readiness/ Remediation execution
- Extensive track record in product approvals, comparability, changes to process, and change management for scalability from pre-clinical through commercial

Manufacturing Operational Readiness



PTSI doesn't stop at design and troubleshooting. We ensure our clients' facilities, infrastructure, documentation, and staff are ready for MFG operations.

- Author/ Review all documentation: SOPs, Work Instructions, Batch Records, Sampling Plans, Test Methods, BOMS, Protocols, Reports, Equipment Lists, Training, Safety Plans, & Policies
- Process Flows, Visual Management Tools, Continuous Improvement Tools
- Resource Management Plans: Hiring, Staff Allocation, Training/ Qualification
- Manufacturing Personnel and Gowning Qualification
- Site Safety, Security, Access Control, Pest Control, & Fire Systems
- Building Management Systems & Environmental Management Systems

Reliability Centered Maintenance Program CMMS



Implement RCM Program (Preventative Maintenance/ Repair, Calibration, and HEPA Certification Programs) that is compliant with the regulatory cGMP requirements that utilizes a CMMS (BM-RAM or Maximo) electronic system for our clients

Reliability Centered Maintenance Process Flows:

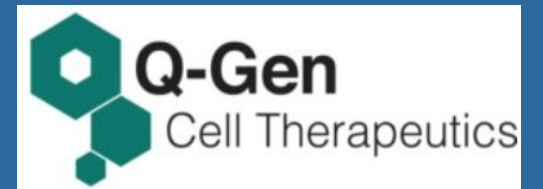
- RCM Program (Preventative Maintenance/ Repair) Process Flow
- Calibration Process Flow
- Cleanroom/ Equipment HEPA Filter Certification Program Process Flow
- CMMS Planning/ Scheduling
- Implementation experience with Blue Mountain and Maximo

Supply Chain Strategy



- Establish Biopharma Clinical/ Commercial Supply Chain Strategy Development and Oversight
- Lead in the establishment of the client's tech transfer to their own Biopharma products to their own MFG Facility or a Contract MFG Operations Site

PTSI Clients



PTSI Industry Partners

