

Meet the Expert



Tom is a well-known technical resource and contributor to the design, construction, commissioning and qualification of many manufacturing facilities currently producing key biopharmaceutical therapeutics and vaccines in the global marketplace.

Tom is a graduate of Pennsylvania State University's Architectural Engineering program, long recognized as one of the world's oldest and strongest applied building architecture and engineering programs of its kind. After completing his academic career and thesis on the application of design-build contracting, he started his professional career in the construction industry as a design-build estimator, project engineer and project manager. Over the last 20 years, his career has broadened into the highly specialized technical engineering of biopharmaceutical facilities from concept to process design studies to detailed engineering through construction and qualification. Using his acquired knowledge of cGMP's and process systems, Tom has led many projects as project manager and process architect, as well as served as lead engineer for the process, mechanical and HVAC engineering disciplines. He has managed the IPS architecture and process engineering groups and over the last 15 years, he has focused primarily on biologics and vaccine facilities. Tom now leads the IPS bioprocess leadership team and interfaces with clients as a strategic planning consultant, process architect and subject matter expert, assisting with the integration of bioprocessing equipment, cGMP's and advanced facility design initiatives on projects and capital plans.

Tom's work with dozens of vaccine, cell therapy and monoclonal antibody production facilities has allowed him to gain valuable insight into the equipment, processes, operations, biosafety and supply chain requirements for these facilities. His extensive experience with single-use bioprocessing and modular construction, and how these enabling measures impact the way we design new manufacturing processes and facilities is a unique strength, and inspired his co-authorship of a chapter on these technologies and how they can optimize new facility designs for biologics manufacturing and sterile filling ["Single-Use (SU) Systems", Encyclopedia of Industrial Biotechnology published by Wiley & Sons, Ltd.].

Since 2008, Tom has been participating each year as an organizer, presenter and leader of the IPS Biomanufacturing Floor Tour at Interphex in NYC, guiding hundreds of industry attendees wanting exposure to the most intriguing emerging technologies.

Tom J. Piombino, PE
Process Architect

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Areas of Expertise

- Bioprocess Facility Design
- Project Management
- Facility Programming
- Single Use Integration
- Realization of the FoF
- Technical Consultancy
- Achieving Business and Project Objectives
- Inceptioneering

