

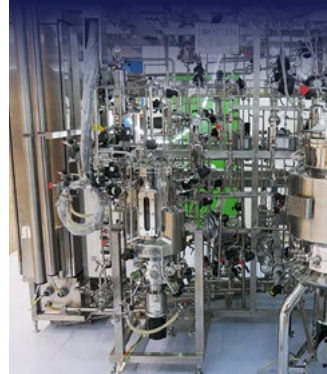
BIOLOGICS FACILITIES

Selected Design & Execution References

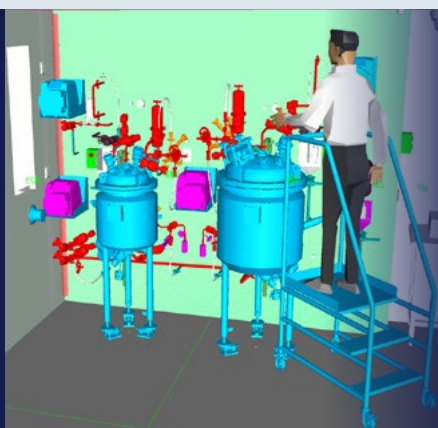


Project Types & Solutions

- Modular / Hybrid Buildings / Process Skids
- Standardized pods / Client Specific Solutions
- Front-End Design / Turnkey Delivery
- Process Engineering / Automation / C&Q
- Consulting Services within Life Science Industry
- Site Master Planning
- Process Simulations



Company	Country	Scope	Type of project	Size, m2	Year
Confidential	USA	Modularization Study, Basic Design	Brownfield facility expansion for peptide manufacturing	5,500	2026-ongoing
Confidential CDMO	Sweden	Conceptual & Basic Design, Execution	Modular Turnkey Facility Expanding Peptide Manufacturing Capacity	1,000	2025-ongoing
Confidential	UK	Modularization Study	Modular greenfield facility for biologics bulk manufacturing	10,000	2025
Confidential CDMO	Sweden	Conceptual & Basic Design, Execution	Tankfarm for process waste and chemicals		2024-2025
Confidential CDMO	Sweden	Conceptual & Basic Design	Greenfield peptide manufacturing facility incl process equipments	20,000	2025-2026
Vaccine Industries Co.	Saudi Arabia	Conceptual Design + Site Master Planning	Greenfield facility for manufacturing of vaccines (DS+DP), incl. production, warehouse, QC-labs, R&D and administration buildings.	40,000	2023
Vils Engineering / Batavia	The Netherlands	Conceptual & Basic Design, Execution	Indoor modular solution for a new drug substance facility. Cleanrooms in modules to be placed on the third floor of a new conventional building	1,650	Design 2022-2023 Execution 2023 -
Confidential	Sweden	Modularization Study/ Conceptual Design	Indoor modular solution for a new drug substance facility in Uppsala, Sweden	1,300	2022-2023
Confidential Plasma Fractionation Company	Sweden	Process Concept Investigation	New basic fractionation process line, inc. buffer preparation, distribution and CIP		2022
Confidential Big Pharma	Austria	Modularization Study	Modular OEB5 containment facility	1,000	2021
Ziccum AB	Sweden	Conceptual Design	Modular pilot plant for drying of vaccines, BSL2	750	2021
Advance Pact Sdn Bhd	Malaysia	Conceptual Design	Two modular facilities: bulk manufacturing facility & aseptic filling facility, greenfield site.	2,120	2021
Advance Pact Sdn Bhd	Malaysia	Consultancy Study	Search for Technology Transfer partner for COVID19 vaccine		2021
Confidential Big Pharma	Croatia	Conceptual Design	New biopharmaceutical drug substance facility	1,800	2021
Ardena	Sweden	Conceptual Design	Site expansion, modular small molecule API facility	520	2021



Company	Country	Scope	Type of project	Size, m2	Year
Confidential Big Pharma	Sweden	Conceptual & Basic Design, Execution	Rebuilding of existing facility aimed to expand the chromatography purification area		Design 2021-2022 Execution 2023 -
Confidential Big Pharma	USA	Conceptual & Basic Design, Execution	Modular expansion of an existing bulk manufacturing facility (vaccines)	1,500	Design 2019 Execution 2020-2022
Confidential	Sweden	Conceptual Design	Analysis and development laboratories	600	2019
Biotechpharma	Lithuania	Conceptual & Basic Design, Supply of tanks	Bulk manufacturing facility for bacterial and yeast fermentation, 3,000 L fermentor	1,560	2018 -2019
Valneva	Sweden	Feasibility Study, Conceptual & Basic Design	Expansion of a bulk manufacturing and filling facility, BSL-lab (vaccine)	300	2017-2018
Confidential	Pakistan	Conceptual Design	Modular bulk manufacturing facility (animal vaccine BSL-3).	2,800	2018
Prometic	UK	Process Simulation, Conceptual Design	Bulk manufacturing facility for Recombinant Plasma Protein Purification System (PPPS) plasma products.		2017
Emergent Bio-solutions	Canada	Conceptual Design	Bulk manufacturing facility for Hyper-immunes		2017
Prometic	Canada	Conceptual Design	Bulk Manufacturing facility for Recombinant Plasma Protein Purification System (PPPS) plasma products.		2016
Prometic	UK	Conceptual Design	Downstream production facility (Mimetic Ligands)		2016
Pfizer	Sweden	Basic Design, Detail Design, Execution	Compounding and dispensing suite		2015 -2016
Cipla	India	Conceptual Design	Bulk manufacturing & aseptic filling facility (mAbs). Based on KeyPlants Modular Bio Solutions (MBS)platform	7,300	2016
Confidential	Eastern Europe	Conceptual Design	Bulk manufacturing facility (mAbs and therapeutic Proteins). Based on KeyPlants Modular Bio Solutions (MBS) platform.	4,800	2015 -2016
Confidential	Eastern Europe	Conceptual & Basic Design	Bulk manufacturing facility for Recombinant Plasma Protein Purification System (PPPS) plasma products & aseptic filling facility. Technology Transfer from Prometic, 600,000 L	4,500	2015 -2016



 **KeyPlants**



	Country	Scope	Type of project	Size, m2	Year
Confidential	Latin America	Conceptual & Basic Design, Execution	Modular bulk manufacturing & aseptic filling facility (mAb & therapeutic proteins), greenfield site.	6,300	Design 2014-2016 Execution 2018-2020
Octapharma	Sweden	Process design, Execution	Expansion of fractionation and aseptic filling facility for plasma derived (Modified Cohn process) products, 1,600,000 L		2015 - 2017
Merck	USA	Conceptual Design	Biotech bulk facility: design platform for therapeutics, LVV, bacterials (Modular Bio Solutions)	1,100	2014
Crucell	The Netherlands	Conceptual & Basic Design	Cell culture facility (vaccine) BSL3	200	2014
Zist Biotech	Iran	Conceptual Design	Bulk manufacturing facility (mAb)		2014
Cipla	India	Conceptual Design	Bulk manufacturing and aseptic filling facility (mAbs)	1,100	2014
MSD	Switzerland	Conceptual & Basic Design, Execution	In-door modular facility for biotech High Containment dispensing	320	2012-2013
Teruisi	China	Conceptual & Basic Design, Execution	Bulk manufacturing facility (mAb)		2012-2016

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