



ZETA BIOSYSTEM

Custom-made solutions for your
Optimum bioprocess engineering

MANY YEARS OF EXPERIENCE IN BIOTECH INDUSTRY

Innovations for sustainable products:
From scale-up to safe operation



Experience creates trust

Team ZETA BIOSYSTEM has emerged as one of the leading Bioprocess Engineering Company in the global market, with a foot print in over 15 countries globally. We stand as the leader for over 20 years. Quality by Design has always been our goal and continues even today. We are grateful to our customers who helped us rise to this level of Technical competence.

ZETA BIOSYSTEM offers strategic solutions that are highly optimized and meet stringent industry product development regulations. We build the best bioprocess equipment and automate different processes that are economically and environmentally sustainable.

ZETA Biosystems's Product portfolio includes comprehensive consulting and engineering services, customized system solutions, digital solutions such as paperless qualification, as well as production simulation and automation.

The close integration of our technical expertise with our digital skills enables us to respond optimally to our customers' requirements.

WHAT WE DO

Together with you, ZETA BIOSYSTEM develops solutions for the challenges of your production

Process Consultant

We provide expert advice and strategic solutions to turn bioprocess ideas into reality.

- * Conceptual Design
- * Basic Engineering
- * Detailed Engineering
- * Automation Solution
- * Validation Master Plan

Design Build

We believe in providing tailor-made, exclusive customized solutions.

- * Reactors
- * Process Vessel
- * CIP/SIP Systems
- * TFF/HFF Systems
- * Filtration Skids
- * Bio-Kill Systems

Automation Solution

We focus on operational flexibility and operator efficiency.

- * Control System Design
- * Software Development
- * Installation Support
- * Integration (Upstream & Downstream)
- * System Validation

Validation

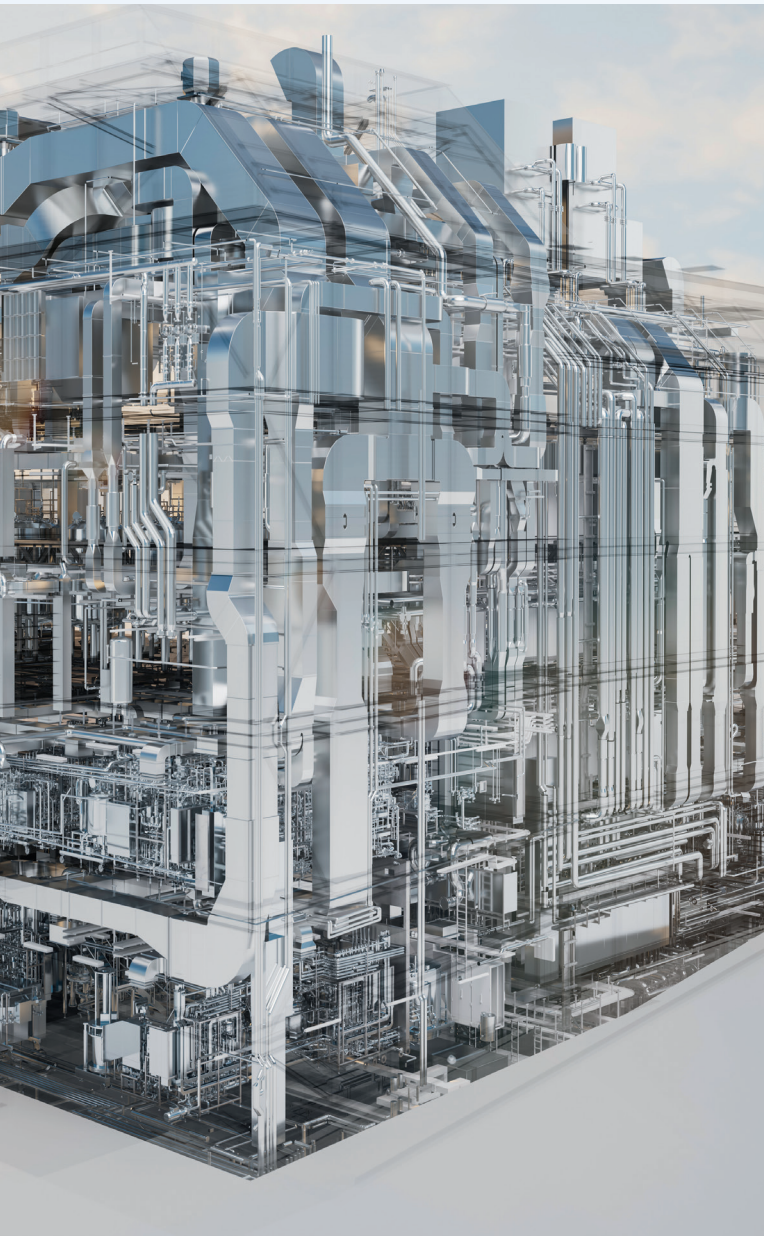
We offer validation services to establish IQ, OQ and PQ for all bioprocess equipments.

- * Validation Master Plan
- * Equipment Validation
- * Process Validation
- * Cleaning Validation



ENGINEERING SERVICES, CUSTOMIZED SOLUTIONS, AND AUTOMATION

When experience meets innovation



From feasibility study to operation

ZETA BIOSYSTEM supports its customers right from the start of the project with the planning of the process and the system. A detailed design of the overall system and the individual components is developed in close cooperation.

Our experience – your safety

Engineering at the highest level is guaranteed by the many years of practical know-how of the ZETA BIOSYSTEM expert team. In all biotechnological production processes, it is important to create optimum conditions for the cell cultures or enzymes involved.

ZETA BIOSYSTEM develops customized automation solutions based on customer requirements using established process automation methods.

A structured design of the automation software with standardized and modular functions ensures the highest degree of flexibility and user-friendliness.

At ZETA BIOSYSTEM, the close interlocking and integration of process technology, engineering, digitalization and automation is lived practice.

SCALABLE SOLUTIONS

Ready to achieve the goal? With ZETA BIOSYSTEMS

End to End solutions

We design equipments to match your process requirements. As an end to end solution provider we start by mapping your process followed by design that meets your exacting requirements. Our product portfolio includes media & buffer preparation vessels, bioreactors & fermenters, filtration systems, harvest & process vessels, media & sterile filtration skids. Our solutions include CIP, SIP & bio-kill systems.

Our automation solutions are designed to monitor, control, archive & analyse the process data. Our control systems are of the highest standards of compliance to various regulatory guidelines.

Thus our integrated approach for your process needs relieves you of approaching multiple agencies to get your plant started and running.

Our focus points

- 1** Customer-specific strategies
- 2** Solutions from concept to project implementation
- 3** Perfect coordination of process and infrastructure
- 4** Expertise for greenfield and brownfield projects
- 5** Comprehensive cost-benefit analyses
- 6** Commitment with Quality

We support you in the development of your products!

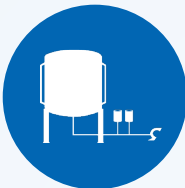


ZETA BIOSYSTEM PRODUCT PORTFOLIO

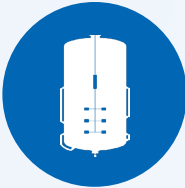
Unleash the full potential of your plant with ZETA BIOSYSTEM Products for maximum efficiency and cost savings



Bioreactors



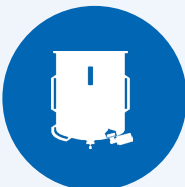
CIP | SIP Systems



Fermenters



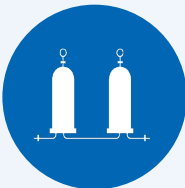
Bio-Kill Systems



Process Vessels



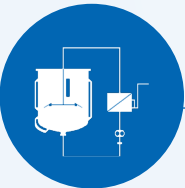
Magnetic Mixers



Filtration Systems



Filter Housings



TFF | HFF Systems



Cassette Holders

ZETA BIOSYSTEM SERVICE PORTFOLIO

The Best we can offer, to enhance your performance



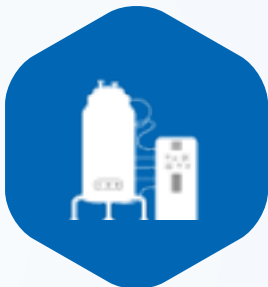
Design Build



Process Engineering



Automation Solution



Customized System



Smart Engineering



Digital Solutions



Validation



INNOVATIVE SOLUTIONS FOR OUR CUSTOMERS

EVOLUTION OF TECHNOLOGY



ZETA BIOSYSTEM Business Activities

Process Consultant
Design Build
Automation
Digitalisation
Qualification
Maintenance & Upgrades

Customer Benefits

Ultra-fast projects & faster time to market
End-to-end solutions from a single source
Customized solutions
GAMP₅ / ASME / 21 CFR / FDA - Compliance
Deep process understanding
Experience in complex biologics
High process reliability
Scale-up capabilities
Own ZETA Experience Center

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