



Sustainable solutions. Efficient implementation.

Viabile solutions for life sciences.

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Economical and GxP-compliant?

It's possible – with fresh ideas from us.
 Chemengineering is your partner for plant engineering and consulting in a GxP-regulated environment. With more than 20 years of experience, we are seasoned life sciences professionals, while also still being open enough for new ideas. We are GxP experts who ensure not only that productivity is at the right level, but also that you can enjoy peace of mind when it comes to official inspections. Chemengineering accompanies you throughout your plant's lifecycle, and coordinates all the trades that you need for the end-to-end realization of your project. No matter what challenge arises, we have the right solution to meet your needs.



Getting to grips with investment projects?

It's simple – with our specialists at your side.

Investment projects are often one-off considerations for our customers. To prevent planning from becoming a balancing act between the project and day-to-day operations, we bring our expertise from over 5,000 successfully completed projects to you. Our specialists are a well-coordinated team that ensures your project is completed on time and on budget, and to the agreed level of quality. Our organization is flexible enough to meet your specific requirements and to adapt processes as appropriate. We are open to collaboration with your suppliers and subcontractors, and can provide you with reliable advice if you have not yet found the right partner.



Project delivery

Controlling, purchasing and budget – who is responsible for the various aspects?

» We plan your project so precisely that all work packages and responsibilities are clearly defined right from the outset.

» Project management

In the kick-off meeting we jointly define the framework conditions for our project together and document them in the project handbook. To ensure smooth communication from the outset, you will have a central contact person who coordinates closely with you throughout the project and who will be available to assist you until the final presentation of the product.

» Scheduling

Work packages, tasks, resources, and milestones We fully integrate all elements by not only documenting the individual planning elements but also illustrating how they relate to each other. This allows us to maintain an overview not only of individual changes, but also their consequences for the entire project.

» Expediting

We coordinate your suppliers with professional expediting and a structured procurement process. We ensure that all required plant components are delivered to the construction site at the right time, at the stipulated level of quality, and on budget by means of on-site appointments and intensive support from ordering to delivery.

» Construction management

We coordinate all trades and check whether the defined performance has been achieved, and that the quality of the work results is appropriate. The entire construction process is documented.

» Commissioning

In the Site Acceptance Test (SAT), we check directly at the installation site that your system is working correctly and that the full scope of delivery has been met.



Need to find the right solution quickly?

Our advanced concepts are your go-to option. Because the selection and design of your process plant are the key factors when it comes to product quality and plant availability, we develop various proposals for you in order to demonstrate possible solution strategies. That's how we find the right path to ensure your individual requirements are met. By simulating your processes in advance, we identify and correct weaknesses before planning is completed, meaning our clients benefit from reliability of planning and lower costs.



From the feasibility study to commissioning:
» We develop technology solutions individually tailored to your needs, to ensure a GxP-compliant and reliable process.

Process design

- Factory planning**
Framework conditions in life sciences sectors are undergoing rapid change, in particular mergers and acquisitions, technical innovations, and increasing regulatory requirements. Integrated and effective factory planning enables you to react flexibly to changes and to ensure efficient production.
- Pharmaceutical production including galenic formulation, finishing and packaging**
We compile and check all operator information so that we can select the optimum procedure for your plant, and laboratory and pilot plant tests are also used to ensure that all user criteria are met.
- Biotechnological production**
Biotechnological production plants must meet the specific requirements for the relevant cell type or microorganism. Our specialist planners work with you and ask the right questions to make sure the right procedure is selected.
- API synthesis plants**
Our interdisciplinary teams devise and implement plans to prepare your plant for the production of Active Pharmaceutical Ingredients (API). Our specialists' extensive experience means you can be assured that all process-relevant criteria are taken into account and efficiently met.
- Process energies and media**
The quality, product properties and stability of process energies and media influence the quality of the end product and how your production performs. By making the right selection, we help you ensure efficient and environmentally friendly production.
- Process automation**
We develop advanced and flexible process automation concepts, meaning that our clients benefit from consistently high quality in their products, while also saving both time and money. These concepts can be easily adapted to new technologies, and feature intuitive operation which reduces your processes' susceptibility to errors while also safeguarding patient safety. There is no longer anything standing in the way of completely integrating all work steps – Industry 4.0 is possible.

Have all the relevant interfaces been considered?

Of course – using automated technology.

Whether reconstruction during ongoing operations or new construction on a greenfield site, we plan the complex framework conditions for processes and operations in a GxP-regulated environment from the outset. We are familiar with the requirements for equipment, process media and warehousing – meaning that we always think one step ahead. All parts of the building are designed with the right logistical connections. Advanced building automation enables you to control and document temperature, humidity, pressure and particle count, making it possible for you to protect your employees, the environment and the quality of your products.



Building design and building services

Temperature, humidity and pressure.
 Everything under control, with advanced building automation.

Construction and architecture

- GxP-compliant building design for:
- Production and manufacturing areas
 - Clean rooms
 - Laboratories
 - Warehousing and logistics
 - Hospital pharmacies

Building services

- Air conditioning and ventilation technology (HVAC)
- Exhaust air treatment
- Sanitary engineering
- Ultra-pure media engineering
- Black media engineering
- Electrical engineering
- Building automation including GxP monitoring
- Safety engineering
- Energy management
- Generation plants for primary energy

BIM (Building Information Modeling)

- Building Information Modeling enables us to implement integrated digital planning and for all planners to work jointly on a building model. This offers key benefits for your project:
- Better decision-making through the simulation and visualization of variants
 - Reliability of costs and scheduling at an earlier stage
 - Clear planning
 - Complete documentation

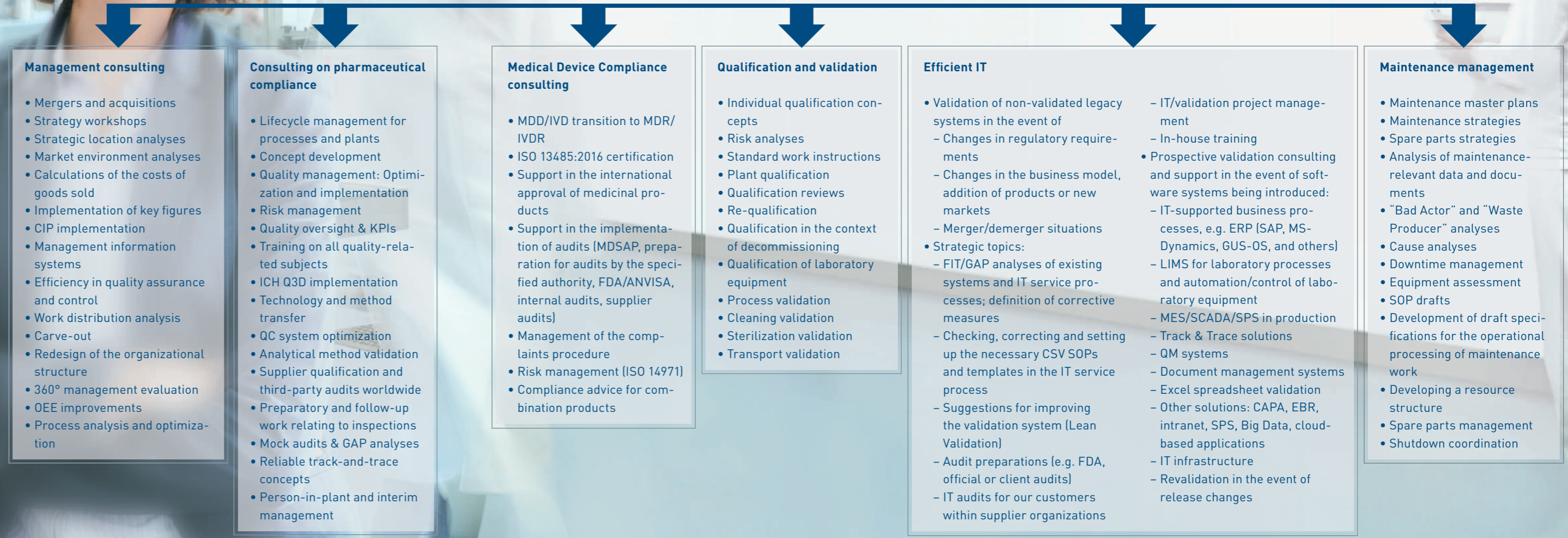
Do you want to run your daily operations worry-free on a long-term basis?

You've never had so many options. With our services, we help you operate your business efficiently, safely and progressively over the long term, meaning you can guarantee consistently high quality in your products, deliver on your brand promise, and remain competitive. To support you in this, organization, operational processes, and IT systems are continuously further developed and adapted to changing framework conditions to ensure efficient plants, high-performance organization and audit-proof systems and processes that pass audits at the first attempt.



Added-value Services

For consistent quality and agile management:
 >>> **Our service solutions create real added value for your investment.**



» Registered office

Switzerland

Münchenstein (Basel)

T +41 61 467 54 00

Sites

Germany

Wiesbaden

Stuttgart

Heidelberg

Hamburg

Leipzig

T +49 611 77 88 70

Austria

Vienna

Kirchbichl | Tirol

Kundl | Tirol

Linz

T +43 1 255 74 13 13

Poland

Gdansk

T +48 504 028 892

Serbia

Belgrade

T +381 11 4003 580

Spain

Sant Cugat del Vallès (Barcelona)

Madrid

T +34 932 384 990

» Publishing information

Chemgineering Holding AG

Binningerstrasse 2

4142 Münchenstein | Switzerland

info@chemgineering.com

www.chemgineering.com

chemgineering