



 **LIFE SCIENCE**

The specialist for industrial buildings.

Geistlich Pharma AG

INSIGHT



Due to the ever-increasing dynamics of globalized markets, competitive pressure, and increasingly restrictive regulatory requirements, the adaptability of production is becoming fundamental to long-term business success. The renowned Swiss company Geistlich Pharma AG has recognized the signs of the times and, together with IE Life Science, has realized a flexible new building for bulk production in a clean room.

Geistlich is one of Switzerland's oldest family-owned companies. Founded in 1851, it has developed over time into the global market leader for regenerative dentistry products. Geistlich Pharma owes its excellent reputation primarily to its ongoing investment in research and development, which also makes the company an innovation leader in its fields. The development and production of biomaterials for applications in dental medicine are among the company's specialties. The corresponding medical devices and pharmaceuticals are produced at the Wolhusen site (Canton of Lucerne). The research and development department is also located here.

CLOSER TO THE MARKET THROUGH FLEXIBLE PRODUCTION.

**BIOMED-COMPANY
GEISTLICH PHARMA IS GETTING
READY FOR THE FUTURE.**



// It was important for us to find a planning partner who could take care of the entire package. Another criterion was comprehensive cGMP knowledge. With IE Life Science, we could count on this experience. //

*Cornel Imhof,
Head of Department*

SUCCESS FACTORS

1

MORE FLEXIBILITY, MORE PRODUCTIVITY.

AND EVERYTHING FROM A SINGLE SOURCE.

Geistlich Pharma had set itself ambitious sales targets, particularly for the Chinese market, which had to be met. Consequently, a project to expand cGMP production was launched, which took concrete shape in fall 2016. A new production building with a clean room for various uses was to be constructed directly adjacent to the existing factory building. The goal was not only to increase production capacity, but also to make production as flexible as possible. IE Life Science prevailed in the evaluation. Its expertise in "operations and construction planning from a single source," its above-average clean room competence, and its expertise with flexible production infrastructures were convincing.

2

ANALYZED FROM TOP TO BOTTOM.

THOUGHT OUT FROM THE INSIDE OUT.

In line with the efficient principle of "one for all," IE Life Science's contract included concept and system planning as general planner, as well as the execution and coordination of the construction project as total contractor. This also included cleanroom planning and building services planning. With IE's proven "inside-out" planning approach, the starting point is not architectural considerations, but rather the analysis and planning of operational processes. Therefore, in the Geistlich Pharma project, fundamental conceptual questions regarding the layout of the production rooms and their connection to the necessary utilities were clarified first. This is an optimal approach when production must be as adaptable as possible to changing conditions.

3

SET TO FLEXIBILITY.

FROM CLEANROOMS TO BUILDING SERVICES.

Working closely together, the client and IE Life Science developed a solution that met their ideal requirements. IE Life Science began the actual planning process by creating a space relationship diagram for the various intended uses. Based on this, a concept was developed for a flexible production building with clean rooms. This ensures that production processes can be adapted to suit the situation or demand. It also takes into account hygiene, operations, and equipment requirements. The hygiene concept was revised and the existing zone concept further developed. Another challenging planning issue was building services: the supply systems must be compatible with adjustments to the production concept and be able to be retrofitted at any time.

4

ROOM TO GROW!

HIGH-RISE BUILDINGS TO CREATE OPEN SPACE.

The overall planning resulted in a four-story cleanroom building, with around 20 percent of the space reserved for future growth. The ideal solution sought at the start of planning was achieved by raising the height of the cleanroom floors. The cleanroom design, with strict separation of personnel and material flows, a hygienic airlock concept, and effective prevention of contamination at the interfaces, was also successfully implemented.

The central requirement for high flexibility was also met. This passed the test with flying colors when the process layouts had to be revised again immediately before the start of system planning: The short-term change caused neither problems nor delays. The timely realization of this demanding project is not least the result of close cooperation between the client and the planners. Time was also saved by the fact that IE specialists also took over the qualification process, which was carried out in parallel with the project.

5

MORE ROOM TO GROW. AND FASTER TO YOUR GOAL.

FLEXIBLE INDUSTRIAL CONSTRUCTION.

The new production building with cleanroom will significantly increase Geistlich Pharma's flexibility and associated success in international markets. The flexible plant concept supports the efficiency of bulk production and shortens the time-to-market for new products. The well-thought-out spatial concept and the availability of space reserves allow for further expansion and functional adaptation of production at any time, without the need for costly structural alterations to the building.



IE LIFE SCIENCE

- › General planning and building execution as general contractor

GEISTLICH PHARMA AG

- › Client



OCTOBER 2016 UNITL APRIL 2019

- › Planning and construction period



1.310

- › Cleanroom area



Services

- › Qualifications
- › Concept planning
- › System planning
- › Construction management
- › Execution



Recipe for success

- › Designed "from the inside out"
- › Close collaboration between the client and IE Life Science
- › Comprehensive industry knowledge



IE LIFE SCIENCE

The specialist for industrial buildings.

We are the IE Group: your specialist for industrial buildings.

We plan, design, and construct industrial buildings. Our goal is to maximize the efficiency of your production—with the help of industrial buildings that are perfectly tailored to your manufacturing processes. We work in manageable and therefore effective teams of industry experts whose motivation and initiative you can rely on. Because at our company, all employees are involved in the business. It goes without saying that we also give you guarantees on costs, deadlines, and quality. **IE Plast, IE Food, IE Life Science** and **IE Technology** are part of the IE Group, which has been on the market since 1966 and offers the necessary financial backing - even for large construction projects.



AT HOME IN YOUR INDUSTRY



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ALL EXPERTS UNDER ONE ROOF



SECURITY THROUGH GUARANTEES

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