



## Laboratory planning and execution from a single source

**Sustainable laboratory concepts are comprehensive. They offer the necessary flexibility to cope with future developments and requirements in terms of infrastructure and organization. Off-the-shelf laboratories are not a viable long-term solution, as buildings, technology, and equipment must be considered as a whole. This is precisely where IE Life Science Engineering comes in: with holistic laboratory planning and execution.**

The constant evolution of science and technology places special demands on employees, buildings, and technical installations in laboratories. A future-proof laboratory must be adaptable and convertible. In order to identify individual needs, it is important for us to understand our customers' workflows and processes. Only by working together can we develop an optimal laboratory concept. With the customer's company-specific know-how and our many years of experience in laboratory planning and construction, all relevant aspects can be taken into account: from the technical infrastructure and personnel safety to the design of the employees' workplaces.

### **LABORATORY CONSTRUCTION SERVICES:**

- › Sustainable laboratory planning
- › Zone concepts
- › Cleanroom concepts
- › EX protection concepts
- › Safety: people & environment
- › Meeting zones & communication platforms
- › Site & building development
- › Construction planning
- › Construction execution
- › Commissioning & training
- › Qualification (GMP/GLP)

### **Operations planning & construction**

More information about our range of services: [www.ie-group.com](http://www.ie-group.com)



### **Supporting employees**

Laboratory employees today are highly qualified: they interpret measurement results, place the results in a broader context, and discuss them in interdisciplinary teams - across different locations and national borders.

Globalization has also significantly changed the working environment in many laboratories, and companies have recognized that well-trained and motivated employees are the key to success. It is therefore particularly important in laboratories to create optimal working conditions and to incorporate developments in working methods and organizational structures. Modern laboratory concepts take precisely these developments into account. They promote employee motivation and cooperation through optimal workplace design, ideal communication tools, meeting areas, and quiet zones. Well-designed laboratories thus contribute significantly to a learning organization and thus to the "well-being" of the company. In addition to employee motivation, the technical infrastructure and processes are also crucial to the success of the company.

Laboratories are considered the epitome of progress and must be able to evolve. "Universal laboratories," where synthesis, routine analysis, and IPC take place, are no longer found. Material and personnel flows should always be oriented toward processes and procedures. New and optimized laboratory layouts offer the opportunity to sustainably improve efficiency in maintenance and production.

### **Knowing laboratory types and planning holistically**

Today's laboratory requirements are more complex and individual than ever before. It is essential that planners know and understand the industry-specific aspects. This applies in particular to biosafety, GLP, and radiation protection, but also to highly specialized applications in analytics and to laboratory facilities with very high sample volumes. In addition, it is necessary to anticipate how a laboratory will develop in the future. Modular building structures and future-oriented building services create the necessary flexibility for various options.



Examples of laboratory types that we plan and execute holistically:

#### **Research & Development**

- Analytical laboratory
- Synthesis laboratory
- Biosafety laboratory
- Molecular biology, genetics
- Isotope laboratory
- Animal laboratory
- Physics
- ScaleUp/Pilot Plant
- Synthesis laboratory
- Biotechnology laboratory
- Cleanroom laboratory

#### **Production / Quality control**

- IPC-laboratory
- Chemical and physical quality control
- Microbiological quality control
- Cleanroom laboratory
- GLP-compliant laboratories
- EX-protected areas

#### **Routine laboratories/ diagnostics**

- Microbiology
- Chemical and physical laboratories
- Instrumental analysis
- Hospital laboratory

Thanks to our many years of experience in industrial construction, we are also familiar with industry-specific laboratory types:

- Pharmaceuticals
- Biotechnology
- Chemistry
- Cosmetics
- Food
- Flavors and fragrances
- Paints, varnishes
- Agrochemicals
- Geochemistry and environmental analysis
- Healthcare
- Plastics industry
- Public sector

#### **Expertise & construction know-how**

Our experts have extensive laboratory know-how and can draw on operational management experience in the laboratory sector. They are supported by our experts in architecture, construction planning, and building execution.

Our range of services and our experience enable us to find and implement holistic solutions. We provide you with expert support from the clarification of your needs and the design phase to the construction of factory and laboratory complexes or the extension and conversion of existing buildings - all from a single source.

**Engineered by IE.**



### **Working together to find cost-effective solutions**

Our planners always keep cost-effectiveness in mind and offer you transparency across the board: clear communication channels, clearly defined project steps, and cost transparency.

We have an extensive and proven network of experts in fields such as process engineering, media supply, and building services. We are completely independent of suppliers, manufacturers, or investors and can represent your interests without hesitation.

Through the collaboration of experts in process, laboratory planning, and construction, we are able to accompany your project from the initial idea to its execution. In doing so, we offer you guarantees for the quality, costs, and deadlines of your investment project.

### **Contact us**

Direct and clear: one contact person, one contract, one interface. We look forward to hearing from you and are happy to answer any questions you may have.

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## **Contacts**

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