

How To Design A Successful Laboratory?



Involve all stakeholders

- * Stakeholders - Designers, lab owners, lab users, lab manager, faculty/ staff, and lab maintenance personnel
- * It's always best to include everybody's input beforehand
- * Helps in understanding end-user's requirements

Understand the space

- * Always make a physical site visit to understand the kind of space needed
- * Include the designers & lab managers to know how the space will be used
- * Draw up plans that account for all the end-user's problems

Determine control areas

- * It's important to determine the control areas to ensure aesthetics & regulations are accounted for
- * When these are determined, it makes for much better end-product
- * Involve Environment, Health & Safety (EHS) personnel to ensure compliance

Plan dedicated spaces

- * You need to dedicate spaces for - equipment, chemical storage, electricals, user movement, sitting areas, workspaces
- * This also means fume hoods & HVAC systems need to be aligned and electricals & mechanicals need well-fitted drawings
- * Involve lab planner, architect, and MEP engineers in the process

Plan the equipment list

- * Always have the equipment list handy before planning the spatial design of the lab
- * Co-ordinate it with the lab manager & end-users
- * Once you have the equipment handy, it's also easier to figure out where to place fixed or adaptable furniture
- * It also ensures compliance requirements are met

Laboratory Design Guide

Kenneth Everett, Donald Hughes



Laboratory Design Guide:

Guidelines for Laboratory Design Louis J. DiBerardinis, Janet S. Baum, Melvin W. First, Gari T. Gatwood, Anand K. Seth, 2013-04-08 Proven and tested guidelines for designing ideal labs for scientific investigations Now in its Fourth Edition *Guidelines for Laboratory Design* continues to enable readers to design labs that make it possible to conduct scientific investigations in a safe and healthy environment The book brings together all the professionals who are critical to a successful lab design discussing the roles of architects engineers health and safety professionals and laboratory researchers It provides the design team with the information needed to ask the right questions and then determine the best design while complying with current regulations and best practices *Guidelines for Laboratory Design* features concise straightforward advice organized in an easy to use format that facilitates the design of safe efficient laboratories Divided into five sections the book records some of the most important discoveries and achievements in Part IA Common Elements of Laboratory Design sets forth technical specifications that apply to most laboratory buildings and modules Part IB Common Elements of Renovations offers general design principles for the renovation and modernization of existing labs Part II Design Guidelines for a Number of Commonly Used Laboratories explains specifications best practices and guidelines for nineteen types of laboratories with three new chapters covering nanotechnology engineering and autopsy labs Part III Laboratory Support Services addresses design issues for imaging facilities support shops hazardous waste facilities and laboratory storerooms Part IV HVAC Systems explains how to heat cool and ventilate labs with an eye towards energy conservation Part V Administrative Procedures deals with bidding procedures final acceptance inspections and sustainability The final part of the book features five appendices filled with commonly needed data and reference materials This Fourth Edition is indispensable for all laboratory design teams whether constructing a new laboratory or renovating an old facility to meet new objectives

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Handbook for Process Safety in Laboratories and Pilot Plants

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