# Top considerations for developing a new laboratory

Whether you are setting up a new lab, or expanding an existing one, the process can be both exciting and overwhelming. To get set up within budget and timeframe, explore the thought processes and solutions at each phase of your project.

## PHASE 1 Your requirements Establish the key milestones for an effective project delivery against time and budget

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### **EQUIPMENT**

is important to consider:

When choosing equipment, it

- The intended purpose
- The size of the lab and access for large equipment (site survey)
- The electrical phase and hardwire requirements
- Options for successful delivery and transport inside the facility
- Service costs (IQ, OQ, PQ and on-going support)
- We offer live demonstrations

Equipment dimensions

of lab products in a virtual setting and loan products for customer trials.

**TIME FRAME** 

Determining a build time

frame is critical for business success. Changes to this time frame may delay outputs and reduce productivity.

We provide product

specifications and delivery schedules for complimentary products across common workflows.

COST

The main facility set up and running costs are:

protect data security
and comply with
regulatory standards
• Energy consumers such
as electrical demands
and phase requirements

IT infrastructure to

- Energy consumers such as electrical demands and phase requirements, specialist gas requirements (CO<sub>2</sub>, O<sub>2</sub>, N<sub>2</sub>), water consumption
   Ducting requirements for
- cytotoxic workflow

  We offer 3D software to

provide an accurate preview of the lab design and ongoing running costs.

## Funding bodies are encouraging laboratories to

**ENVIRONMENTAL FOOTPRINT** 

lower their environmental impact as much as possible. This can be achieved by reducing waste, procuring sustainable products, and using resources more efficiently.

We can provide detailed information regarding the

use of laboratory products across equipment and plastic consumables ranges.

manufacture, operational demand and sustainable

### The future scale up of the project needs to be carefully considered in the planning phase. This

**FUTURE PROOFING** 

ensures that the equipment can handle different assays and/or greater throughput requirements as the project develops and avoids secondary purchases.

We can provide consultative advice based on experience of supplying leading innovative

products across the common life science workflows.

## **Workflows**Identifying the functional or performance specifications of any equipment used in the required workflows can help to ensure accurate project costs.

PHASE 2

## An operating expense (OpEx) is the cost required for the day-to-day function of a lab. This may

**RUNNING COSTS** 

sourcing consumables.

We can offer precise calculated simulations of a full lab demand.

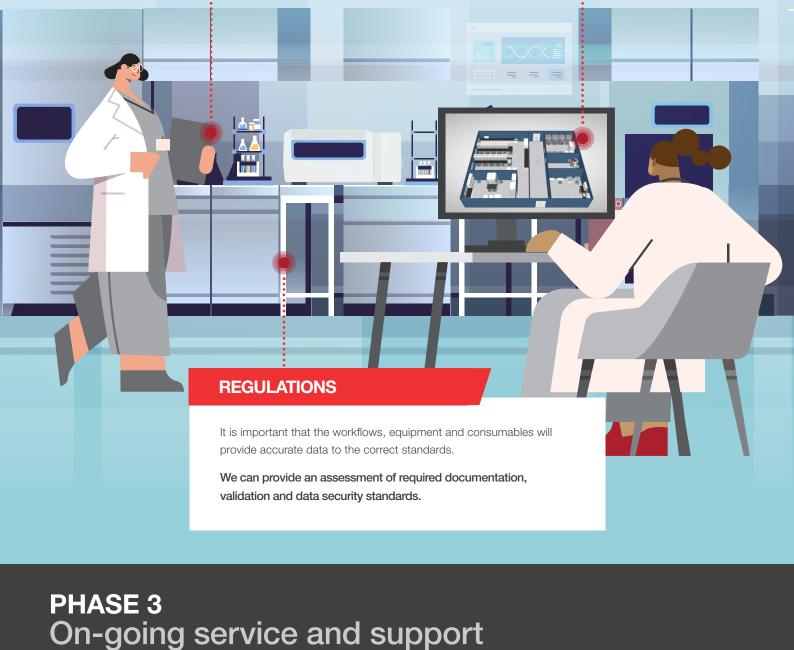
include electrical demand, water supply, and

## Understanding the different workflows allows suppliers to recommend equipment and on-going running costs in terms of consumable demand.

**WORKFLOWS REQUIRED** 

Our product specialists can run live samples through any instrumentation, allowing lab managers to calculate the consumables required

and the instrument's compatibility.



## CONSUMABLES COSTS Project managers must have accurate predictions for

The final phase ensures that investment is reliable and that the infrastructure,

equipment, and partners will deliver against the project objectives.

running costs and supply chain security.

We can provide single prices for consumables for

up to three years.

**MAINTENANCE** 

Instruments must be regularly serviced, calibrated,

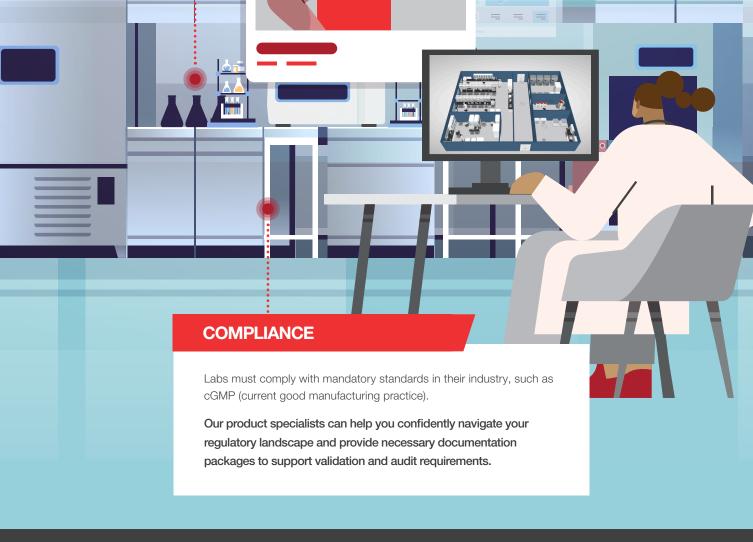
the manufacturer's specifications and provide the

We offer flexible service packages which can be

data accuracy and security expected.

tailored to any laboratory's requirements.

and validated to ensure that they are operating within



## Choosing the right partner

space, time, cost, and specific infrastructure requirements. Choosing the right partner allows you to mitigate risk and get set up on time, and within budget.

Partner with Thermo Fisher Scientific for unique expertise and qualify for up to 50% discount on product offerings.

Setting up a new lab is a complex multi-phase process with many considerations, including

