Building a Truly Interdisciplinary Research Facility

15 Design and Management Principles

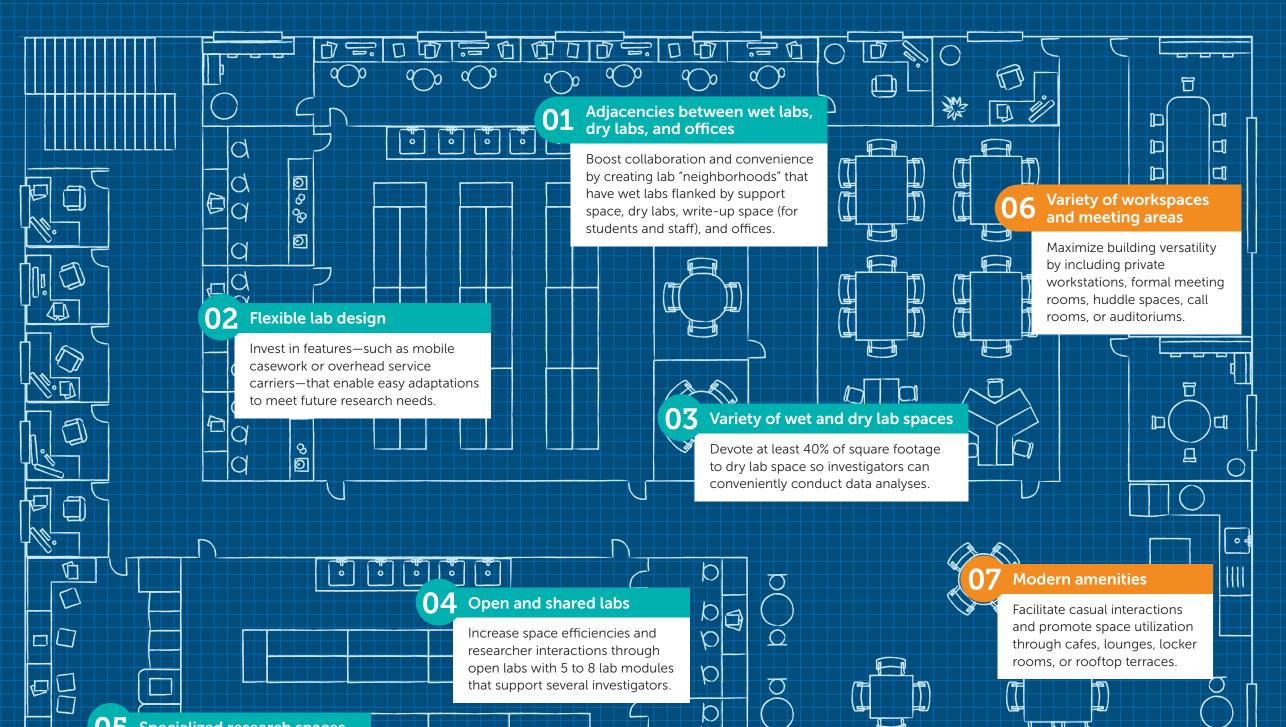
Most existing research facilities were built in the post-WWII construction boom. Today, they are outdated and incompatible with modern research demands. New construction offers a blank slate and the opportunity to hardwire desired behaviors into the physical space. Yet, most new research buildings have failed to meet evolving researcher needs and to achieve their interdisciplinary goals.

This infographic illustrates 15 forward-looking design and management principles to help leaders hardwire new research buildings to spur researcher interactions and support collaborative projects.

Lab-Centric Design Principles

Building-Wide Design Principles

Space Management Principles

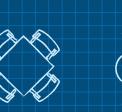


5 Specialized research spaces

Ensure the building can support diverse research groups by dedicating some space to specialized equipment and spaces, such as high-demand core research facilities or low-vibration labs.

"In-between" spaces and shared pathways

Promote chance encounters by intentionally designing hallways, circulation spaces, and communal areas to increase zonal overlap in walking patterns.



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10 Shell space

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Reduce up-front costs and enable future flexibility by intentionally leaving a floor(s) incomplete as shell space.

09 Natural light and clear sight lines

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Encourage researcher connections by using glass to put "science on display" and open staircases to enhance sight lights.

Encourage results to open staircase

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Centralized **Formal space Project-based** Maximum Dedicated 14 13 15 12 management application space allocation occupancy periods swing space Give the Research office Require teams to submit Challenge misperceptions Set a maximum occupancy Meet short-term researcher oversight of the facility applications that explain about permanent space period for teams based on needs by carving out a how their proposed work so that space utilization is "ownership" and guarantee research lab as centrally their projects, review their aligned with research goals. advances interdisciplinary collaboration by allocating progress annually, and claw controlled swing space for collaboration and aligns space to team projects rather back space if productivity temporary allocation. with building priorities. than individual researchers. expectations are not met.



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