

SMART LABS TOOLKIT

The Smart Labs Toolkit describes a systematic process that helps laboratory owners and operators plan and cost-effectively deliver high performance labs, support efforts of key stakeholders, and maximize benefits for the organization.

The following checklist provides an overview of specific tasks outlined in the Smart Labs Toolkit for each phase of the Smart Labs approach: Plan, Assess, Optimize, and Manage. This approach is proven to establish a successful Smart Labs program that enables world class science through the design and operation of safe and efficient high-performance labs.



Get started today with the Smart Labs program!

- Learn Why implement a Smart Labs program
- Be a Champion
- Implement Lessons Learned
- Find Support



Creating a Smart Labs program takes coordination, innovation, and a strong team effort, making planning essential to success.

- Build a Smart Labs Team
- Develop a Plan

PLAN

Deliverable: Smart Labs Roadmap



ASSESS

The goal is to identify areas in which the lab facility can be improved, primarily through looking at laboratory ventilation.

- Review General Guide for Laboratory Building System Assessments
- Conduct Laboratory Ventilation Risk Assessment
- Complete Laboratory Ventilation Risk Assessment Deliverables
- Execute Energy Assessment
- Perform Water Assessment
- Perform Resilience Assessment

Deliverable: Scope of Work for Lab Upgrades



OPTIMIZE

Projects can range in size when executing the scope of work proposed in the previous phase.

- Procure Project Funding and Start the Bidding Process
- Implement Improvement Measures
- Optimize Operations

Deliverable: Building Management Plan



MANAGE

Changes in leadership, research staff, or best practices for safety and research procedures are common.

- Conduct Ongoing Benchmarking and Analytics
- Manage Change
- Develop a Smart Labs Management Plan

Deliverable: Smart Labs Performance Reports



Visit SmartLabs.i2sl.org for more resources.