



**SIEMENS**

# Laboratory Solutions

Achieve the highest level of safety, efficiency and flexibility in your laboratory environments — all from one source.

[www.usa.siemens.com/lifescience](http://www.usa.siemens.com/lifescience)

Combining advanced automation technology with extensive industry expertise, the strength of the Siemens solution lies in the close integration of its technological and procedural-based elements.

Whether you are responsible for one laboratory or hundreds, the issues are the same: staying abreast of regulations, safety concerns, efficiency and sustainability opportunities and implementing solutions that best meet the needs of everyone involved with a laboratory project.

These issues have prompted many leading companies worldwide to include Siemens Building Technologies on their projects. When our laboratory application professionals join your team, they bring decades of experience designing, installing, commissioning and servicing laboratory building automation systems (BAS) that meet increasingly stringent safety, efficiency and regulatory requirements. Moreover, our experts deliver a wealth of application information and proven ideas that your team can employ to solve the most challenging problems at your facility quickly and cost effectively.

Our overriding goal is to deliver solutions that meet your most pressing needs:

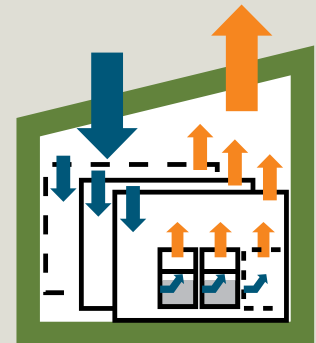
- Cost-effective methods to improve the safety and energy efficiency of existing laboratories
- Flexible ventilation strategies to keep pace with rapid changes occurring in your labs
- A portfolio of integrated controls, monitoring devices and value-added services to ease staffing and budget issues
- Performance testing and record keeping to document compliance of your laboratories, fume hoods and biosafety cabinets with all current regulations




**Answers for infrastructure.**

## Complete Laboratory Solution

Assessment Surveys	Engineered Solutions	Information Management	Service Solutions
<ul style="list-style-type: none"> <li>• Lab Ventilation &amp; Safety Assessment</li> <li>• GXP Assessment</li> <li>• Facility Modernization Assessment</li> <li>• Energy Assessment</li> </ul>	<ul style="list-style-type: none"> <li>• BSC/Fume Hood Monitoring &amp; Control</li> <li>• Lab Room Monitoring &amp; Control                             <ul style="list-style-type: none"> <li>– Pressurization</li> <li>– Ventilation</li> <li>– Temperature</li> <li>– Humidity</li> <li>– Lighting</li> </ul> </li> <li>• Airflow Control Applications                             <ul style="list-style-type: none"> <li>– Single Blade Damper Solution</li> <li>– Venturi Air Valve Solution</li> </ul> </li> <li>• Indoor Environmental Quality (IEQ)</li> <li>• Utility Submetering</li> <li>• Integration of Critical Devices &amp; Systems</li> <li>• Access/Security</li> <li>• Fire &amp; Life Safety</li> </ul>	<ul style="list-style-type: none"> <li>• Real-Time Monitoring</li> <li>• Data Trending</li> <li>• Data Archiving</li> <li>• Reporting</li> <li>• Alarm Information</li> <li>• Remote Notification</li> </ul>	<ul style="list-style-type: none"> <li>• Education Services</li> <li>• Calibration Services</li> <li>• Chemical Fume Hood Testing</li> <li>• Re-entrainment Testing</li> <li>• Room Pressurization Testing</li> <li>• Validation Protocol Development &amp; Execution</li> <li>• Change Control for BAS Updates</li> <li>• Specification Development</li> <li>• SOP Development</li> </ul>
<b>Assess</b> Regulatory, safety & efficiency issues in facility systems	<b>Monitor/Control</b> Environmental conditions, lighting, access, fire & life safety, utilities, research sub-systems/devices & mechanical systems	<b>Manage</b> Total facility operation with monitoring, reporting & data archiving capabilities	<b>Maintain</b> A knowledgeable facility staff, regulatory compliance, operational efficiencies & reliable 24/7 operation

## Laboratory Solution Segmentation



-  Data Management & Information Control
-  Building Control
-  Room Control
-  Hazardous Exhaust Control

Siemens has developed a solution set for laboratory facilities that takes a comprehensive approach to meeting the challenges you face every day. From the initial assessment through ongoing support, we provide the systems, the services and the resources to ensure that your facility is as compliant, efficient, cost-effective, secure and safe as it can possibly be. Combining advanced automation technology with extensive industry expertise, the strength of the Siemens solution lies in the close integration of its technological and procedural-based elements.

By choosing Siemens Building Technologies as your reliable partner, you'll find us eager to apply our solutions, technology, services and expertise to make your facility a success and ensure you complete satisfaction.

## Highlights

- One single source for your laboratory environments during the entire life cycle
- Maximum energy efficiency and cost savings
- Optimized operational efficiency based on integration in the building management and control system
- Intuitive and easy-to-use fume hood operation
- Highest safety and security for your environments, employees, and research integrity

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This document contains a general description of available technical options. Any specific solution(s) will be based on a client's particular requirements and will be addressed in the contract for the project.

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