Biocontainment Solutions

Achieve the highest level of safety, performance and compliance through precise environmental control, monitoring and reporting.

Building Technologies

SIEMENS

Meeting the national biosafety challenge

The construction of biocontainment facilities is growing exponentially due to the influx of federal spending on biodefense and the study of emerging infectious diseases. In order to achieve the scientific goal of vaccines and therapeutic solutions, these facilities must be built with safety and quality as the primary objective. The Building Automation System (BAS) plays a vital role in meeting this objective. Due to stringent biosafety and community issues not typically faced by normal commercial installations, quality assurance is required in all phases of facility design, installation, commissioning and ongoing operations. The BAS enables the critical control and monitoring of the facility to provide continuous safe operating conditions while also recording the activity for verification. The BAS contractor, unlike other members of the design and construction team, will be with you for the life of your building. It is imperative that you choose a building automation company with the experience and history to be your long-term biosafety partner.

Siemens Building Technologies, Inc.

A recognized partner in the Biocontainment Industry...

National Commitment

Our national staff of recognized experts make the Siemens Life Science Center of Excellence a welcome partner for existing and planned biocontainment facilities. Our Life Science team includes specialists who work exclusively in the biocontainment industry. We understand the challenges you face in simultaneously protecting employees and animals, preventing the release of pathogens to the outside environment, and safeguarding the quality of your scientific discovery process. The Center of Excellence develops solutions, training programs, and standard processes and procedures for our network of field office personnel dedicated to providing the local expertise required to design, install, commission and consistently maintain biocontainment facilities. Siemens has more than 100 field offices in North America. Operating under a continuous improvement model, our Center of Excellence and field network staff ensures that all technological and procedural elements of our programs meet current industry guidelines and practices.

The Siemens commitment to the biocontainment industry is backed by alliances and partnerships that enhance our capabilities in delivering a comprehensive solution. Our industry collaborations allow us to contribute to the development of new technology, standards and practices that will rapidly advance the biocontainment facilities of tomorrow.

Solid Experience

Siemens has successfully provided building automation, access control systems, and ongoing maintenance for two BSL-4 suit room facilities and a large BSL-3Ag facility. We have provided controls for an additional BSL-4 suit room facility. We are currently in the final phases of five new BSL-4 suit facilities and one of the largest BSL-3 facilities in the country.

In North America alone, our teams have provided building automation systems for more than 40 customers with ABSL/BSL-3 facilities and 8 of the 13 planned or operational BSL-4 facilities.

Complete Solutions

Siemens is the only major controls manufacturer in the world that offers a complete laboratory solution. Our products provide room pressurization, lighting, temperature control, HVAC control, energy monitoring, facility monitoring, alarming and data archiving without the need for third-party integration. We have integral compliance solutions that meet the technical and procedural requirements of 21 CFR Part 11 as well as reporting requirements for the Association for Assessment and Accreditation of Laboratory Animal Care (AAALAC).

In addition, we provide turnkey access control, CCTV and fire alarm solutions that can be integrated to meet facility requirements.

Leading Innovations

Siemens is dedicated to keeping you in control of your biocontainment facility. We constantly focus on the design and development of new control applications and products that will enhance laboratory safety and performance. We evaluate and test our applications in a biocontainment mock-up lab while working with consulting engineers and facility owners to assess further enhancements. We are committed to developing safer and more efficient solutions at a lower cost.

Extensive Training

To guarantee that our staff maintains a knowledge base consistent with current industry practices and issues, we employ both internal and external training programs. Siemens is a corporate member of many associations active in biocontainment issues, including the American Biological Safety Association (ABSA), the American Association for Laboratory Animal Science (AALAS), and the International Society for Pharmaceutical Engineering (ISPE). We attend and sponsor training seminars hosted by these associations annually. In addition, Siemens hosts a biocontainment symposium for its own field employees that features industry experts from leading professional, government and university organizations and corporations. All employee workshop attendees are trained on global scientific issues, biosafety, biosecurity, engineered solutions and ongoing facility operations. To enable our employees across the country to gain hands-on experience, we also provide cross training between multiple field offices during project construction.

Siemens is also committed to training our client's employees. A well-trained staff is crucial to biosafety and biosecurity. We maintain a formal education services program to ensure that your facilities' staff, and other end users, are knowledgeable about the use and applications of our systems in this demanding environment.

Accountable Service

Siemens is there for you, wherever you are. With more than 100 North American field offices, Siemens Building Technologies is able to provide our end users with customized, high-value services. Nearly 2,000 factory-trained field service specialists and mechanics provide on-site and remote services for Siemens and other manufacturer's systems. We are the one source for fully integrated automation, security, fire safety, energy and service solutions. As a service customer, you will benefit from a single point of contact and accountability, as well as robust processes that ensure all contract promises are delivered.

Siemens Building Technologies Understands

We provide service and support for day-to-day operations, after hours and during annual shutdowns. We offer on-site service, technical support, remote monitoring, system updates, energy services and compliance services, including standard operating procedures, calibration and change control.

We understand the challenges you face every day to assure that your facilities are safe and achieving high performance standards. That's why we do more than engineer the building automation systems that give you the precise control you need. Our solutions take a comprehensive approach to meeting your requirements. From initial design considerations through ongoing support, we provide the systems, the services and the resources that give you the certainty that your facility is as safe, efficient, cost-effective and compliant as it can possibly be.

Combining advanced automation technology with extensive industry expertise, Siemens Building Technologies can help you:

- Meet applicable regulatory and accreditation requirements
- Ensure the quality of environmental conditions
- Improve staff productivity by integrating third-party systems and devices to develop a turn-key operation
- Minimize operational costs through monitoring and control of environmental, equipment and utility conditions
- Maintain a reliable and secure reporting system
- Provide a secure environment to protect staff, product and research integrity
- Provide safe and healthy work conditions to minimize risk and liability
- Provide a state-of-the-art environment conducive to recruiting and retaining staff

Our years of industry experience make Siemens the premier choice for companies striving for the highest quality building management standards available in the industry today.

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