INSPIRING SCIENTIFIC DISCOVERY



Every program is unique, and we design solutions tailored to your specific needs.



-

We create inspired solutions that improve lives



Years since BSA was founded in 1975



Regional Studios AUSTIN | DENVER | INDIANAPOLIS | KANSAS CITY | RALEIGH | ST. LOUIS | TAMPA



Employees across multiple disciplines



2020 Building Design + Construction Top Architecture, Engineering, and Construction Firms in the Science & Technology Facilities Sector



2020 ISPE Facility of the Year Award in the Category of Operational Excellence (*Confidential Client's Innovation Development Center*)

NOTABLE CLIENTS

Bayer AG / Boston Scientific / Children's Mercy Kansas City / Cook Medical / Cook Regentec / Corteva Agriscience (formerly Dow) / Curium Pharma / Elanco / Eli Lilly & Company / Endress+Hauser / ICU Medical / Indiana Biosciences Research Institute / Labcorp (formerly Covance) / MilliporeSigma / MRIGlobal / PathGroup / PolarityTE / Roche / Thermo Fisher Scientific (formerly Patheon)



DISCOVERY PRACTICE PROFESSIONAL SERVICES

BSA LifeStructures employs an interdisciplinary approach to design. Moving away from traditional design, decisions are not made in silos. Instead, they are evaluated across multiple disciplines to produce viable solutions that are more easily implemented and supportive of long-term client goals.

- Feasibility Studies
- Master Planning

PRE-DESIGN

DESIGN

- Strategic Facility Planning
- User Requirements Specifications
- Existing Facility Assessment
- Site Selection Analysis
- Space Planning & Programming
- Facility Management (FM) Planning
- Transition & Occupancy Planning
- ROM Cost Estimating
- Basis of Design (BOD) Development
 - Architectural Design
 - Laboratory Planning
 - Process Architecture/cGMP Planning
 - Scientific Equipment Planning
 - Interior Design
 - Mechanical, Plumbing and Electrical Design
 - Low Voltage Design
 - Value Engineering
 - Peer Evaluation
 - Scope Definition and Change Management
 - Multi-Disciplinary Design Coordination and Oversight
 - Life Safety / Code Review
 - Renderings and 3d Visual Presentations
 - Graphics and Data Support for Fundraising Campaigns
 - Wayfinding Design
 - Environmental Graphics
 - Assistance with Grant Writing and Submission
 - Construction Administration
 - Commissioning
- Factory Acceptance Testing (FAT) Support
- Owner's Technical Representative
- Sustainable Design Coordination
- Post Occupancy Evaluation
- BSL-3 Certification

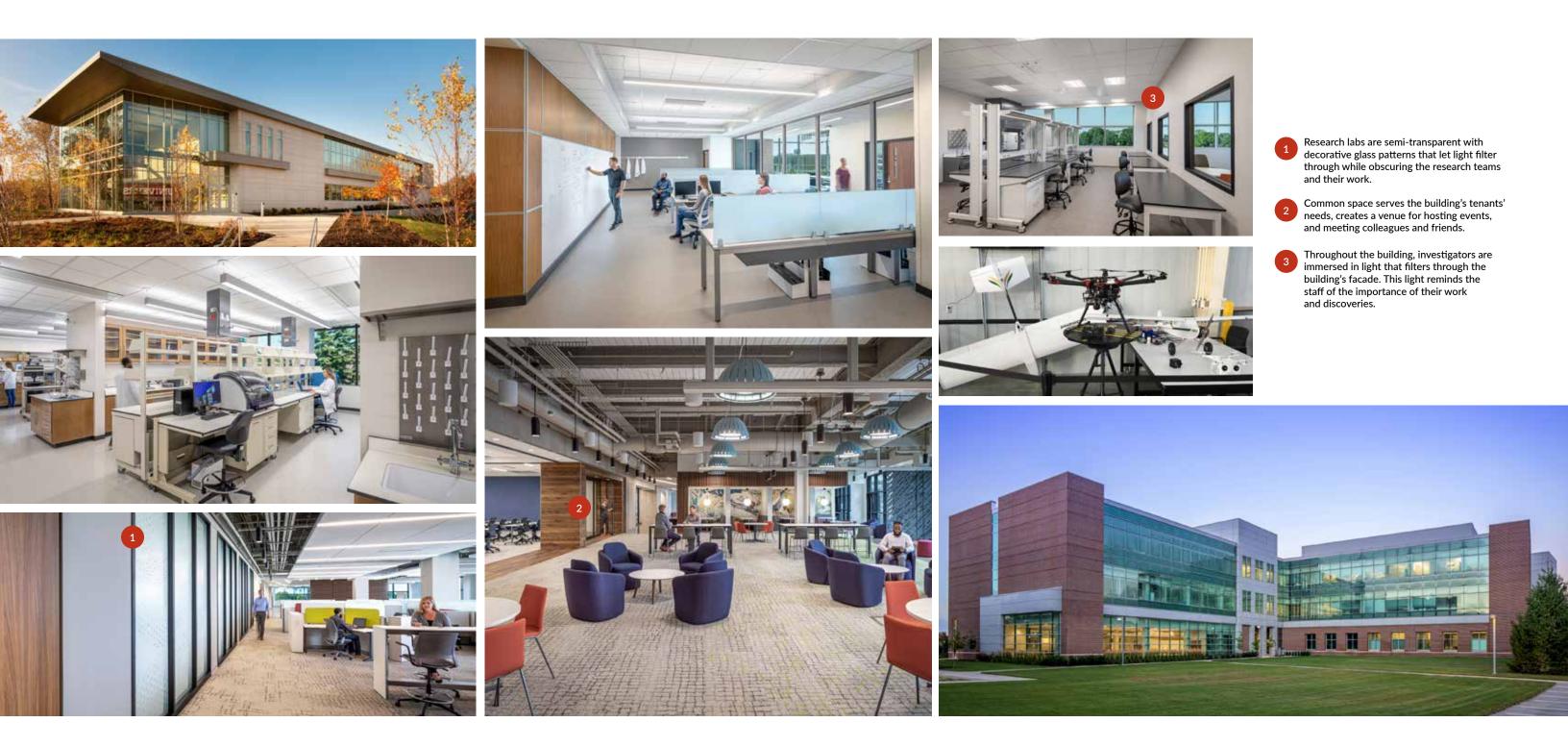


CONSTRUCTION / COMMISSIONING

Design that inspires what's next.

ENTREPRENEURSHIP & INNOVATION

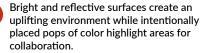
Incubators, accelerators, and innovation districts are designed to ignite collaboration among innovators and entrepreneurs in life sciences, tech, advanced manufacturing, and engineering fields. Startups and pre-revenue ventures are immersed in a culture of support and speed-to-market acceleration.



TRANSLATIONAL RESEARCH

Focusing on translating discoveries into readily available medical solutions requires world-class researchers as well as facilities. Spanning the entire medical spectrum, facilities enable collaboration and a fluid exchange of information across discovery, clinical development, and practice.







DIAGNOSTICS

Clinical laboratories have an immediate impact on the health and safety of patients. The importance of designing labs that optimize testing capacities, speed, and accuracy cannot be understated. Lean laboratory planning, Six Sigma process tools, in-depth knowledge of equipment, and experience with Clinical Laboratory Improvement Amendments (CLIA) are essential to achieving optimal lab design.





PLANT SCIENCE

products.



As the world population continues to increase, plant science will play an essential role in maintaining the world's food supply and improving the environment through plant-based alternatives to fuels, proteins, and cleaning

BIOTECHNOLOGY

Through advancements in areas such as mRNA and cell and gene therapy, start-up companies continue to emerge from academic and medical research settings while established pharmaceutical companies prepare to develop and manufacture new and evolving drug modalities. Multi-modal facilities that are agile and adaptable to these evolving modalities are key in meeting demands and speed to market expectations.







A cGMP facility supports phase one and two clinical trial for cell and gene therapy products.



The cryo-electron microscope is a modern marvel of a machine that allows scientists to look at how proteins and viruses are built atom by atom.



World-class facilities, including BSL-3 laboratories and large insectary complexes, provide an outstanding scientific environment for researchers.

ANIMAL HEALTH

biologics, food safety, and advanced care for pets.



Rapid technological advances in animal health match the rise in companion animal ownership and the growth of the livestock industry. These advances are led by medicinal feed additives, preventative pharmaceuticals and

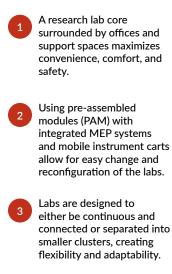
PHARMACEUTICAL DISCOVERY

Research in chemistry and biochemistry requires a level of flexibility that keeps pace with the rapid recruitment and retention.



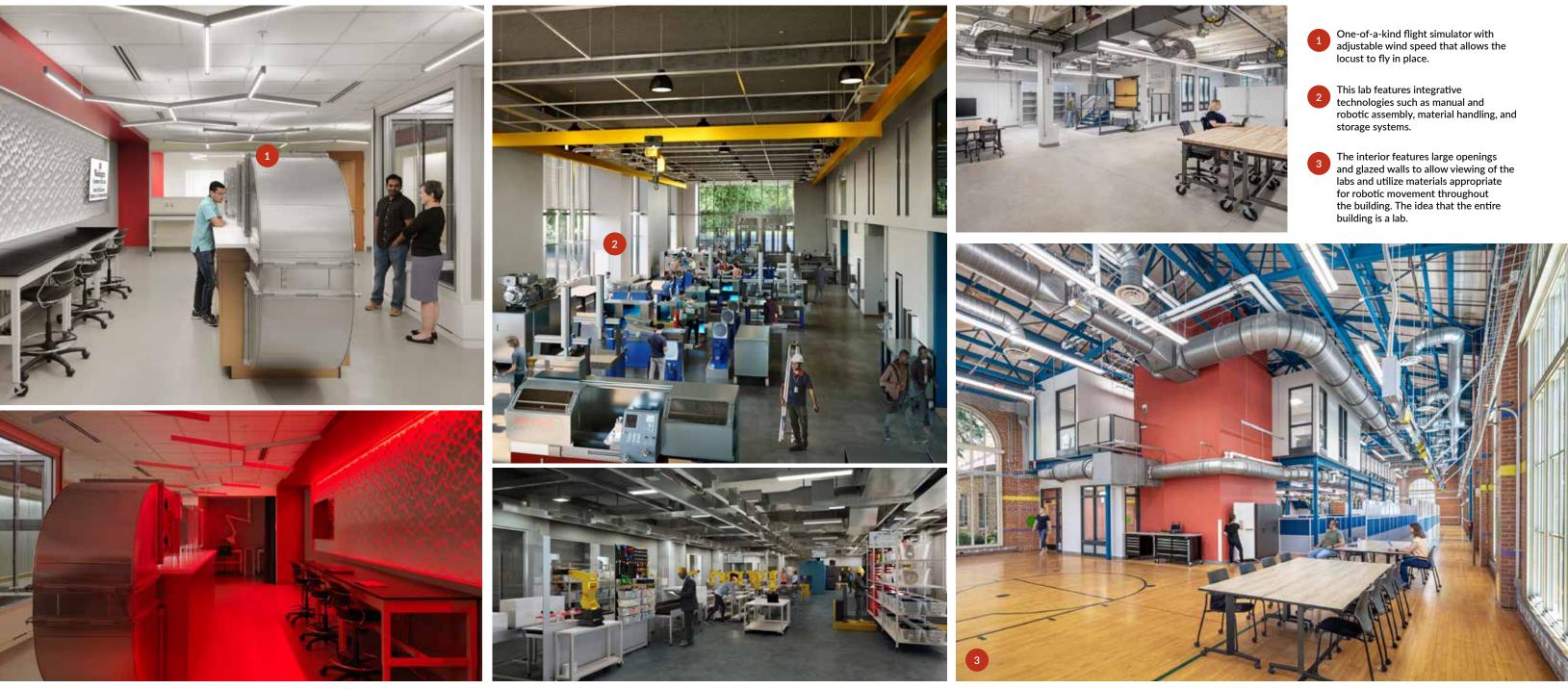
advancement of discovery. "Plug and play" has moved beyond the bench to include mobile fume hoods and entirely convertible laboratories. Workplace design principles such as biophilia and daylight are critical to





ROBOTICS

These centers and institutes explore the next generation of robotics by bringing together researchers from industry, government, and academia to collaborate around emerging fields. New paradigms are emerging which align design, machine learning, materials, software, cognitive science, and security to serve society. Strategic partnerships are critical to accelerating innovations from research labs to the real world.









MEDICAL DEVICE

Advancements in technology, such as robotics, 3D printing, and smart devices, are driving the development of new medical devices and revolutionizing the way these products are made. Planning for new facilities or adapting existing facilities to accommodate these new products and manufacturing processes is a critical step in optimizing speed to market and establishing or maintaining a competitive advantage.





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