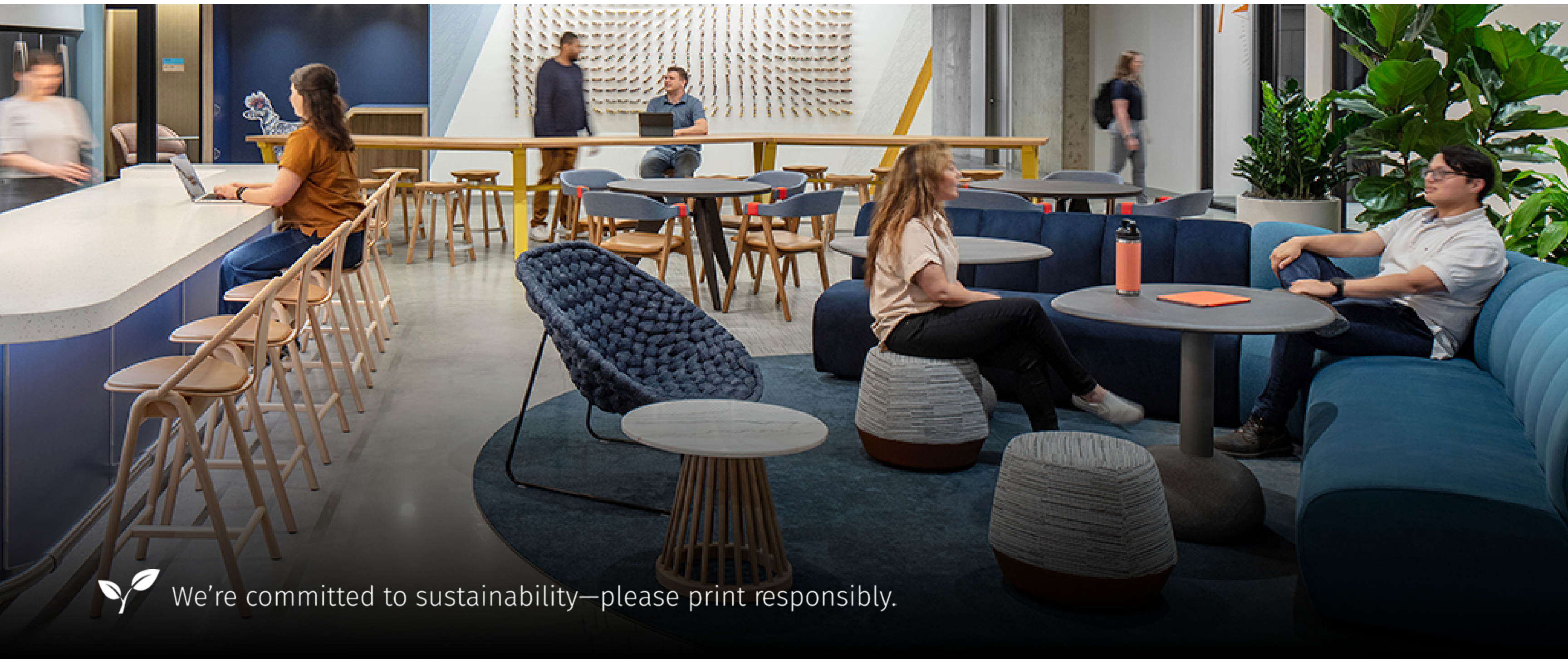


AN INTRODUCTION TO

Built Environment

WORKINGBUILDINGS | CERAMI | LONGMAN LINDSEY | VALCOUSTICS | JAFFE HOLDEN



We're committed to sustainability—please print responsibly.

WHO WE ARE

EXPERIENCE

A LEGACY OF ACOUSTIC AND TECHNOLOGY INNOVATION

The Built Environment Pillar of Trinity Consultants, a multi-billion dollar global consulting firm, brings together renowned industry leaders — Cerami, Longman Lindsey, Valcoustics, Jaffe Holden, and WorkingBuildings — under one banner. Together, we redefine how people experience, interact with, and rely on the spaces around them. From cultural landmarks to mission-critical facilities, we deliver exceptional solutions in acoustics, technology, commissioning, and operational support — backed by an unwavering commitment to technical excellence and human-centered design.

At the heart of our practice lies deep expertise in acoustics, audiovisual systems, IT infrastructure, and security design. With more than 60 years of pioneering work, Cerami and Longman Lindsey have helped shape some of the most advanced and inspiring spaces in the built world — including hospitals, courthouses, universities, laboratories, corporate campuses, and transportation hubs. Their work prioritizes clarity, connectivity, and comfort, ensuring each project delivers an intelligent, immersive experience tailored to end-user needs.

Valcoustics, our Canadian business unit, brings a specialized focus on environmental and architectural acoustics throughout Canada. With over five decades of leadership in the field, Valcoustics has built a reputation for sound solutions grounded in scientific rigor and regional expertise. Their work spans transit systems, mixed-use developments, education facilities, and large-scale infrastructure projects — providing insight on noise control, vibration mitigation, and acoustic comfort that aligns with both client goals and regulatory frameworks. Valcoustics' integration into Trinity Consultants strengthens our North American footprint and reinforces our cross-border collaboration in complex acoustical environments.

Jaffe Holden, a revered name in acoustic design, expands this legacy. Known for defining the sound of iconic performing arts centers and cultural institutions worldwide, Jaffe Holden sets the standard for excellence in auditory experiences. Their award-winning portfolio reflects an unmatched blend of creativity and precision, and their integration into Trinity Consultants enables even broader delivery capacity — enhancing access to interdisciplinary resources in engineering, modeling, and environmental performance.

From a whisper in a lecture hall to the resonance of a symphony in a world-class auditorium, our teams elevate acoustic and technology design across all sectors and scales.

WHO WE ARE

EXPERIENCE

Driving Performance Through Commissioning and Operational Excellence

Complementing our design capabilities is WorkingBuildings, a Trinity Consultants company founded in 1999 and globally recognized for its leadership in commissioning, Owner's Advocate services, and environmental health and safety consulting. Specializing in complex, high-performance buildings, WorkingBuildings ensures that critical systems perform reliably, efficiently, and in full compliance — across sectors such as:

- Pharmaceutical and GMP manufacturing
- Healthcare and life sciences
- Biocontainment and government facilities
- Data centers and commercial developments

With our proprietary CxAlloy platform, we streamline commissioning and quality assurance, providing end-to-end support from project initiation through facility operation. Our integrated team of architects, engineers, and regulatory specialists enables clients to navigate the most demanding environments with precision and confidence.



WHO WE ARE

EXPERIENCE

OUR EXPERTISE

While we are well known for acoustics and technology, we are so much more.

Acoustic Design

When the acoustics of a space are unnoticeable, our design is a success. Our acoustic engineers design, analyze and control sound to give voice to buildings and spaces. We consult with developers and architects on skyscrapers, hospitals, museums, restaurants, hotels, retail, residential buildings and every space that wants a signature sound, or no sound at all. We employ fundamental acoustic engineering principals to optimize the space for its intended purpose.

Technology Consulting

We are specialists in audiovisual, IT and security consulting. We bring resilient communication solutions to an ever-evolving technology environment. Seamlessly combining technological, experiential and operational design, we deliver a bespoke user experience that meets business drivers and ensures full resiliency. Architects and technology managers depend on us to provide guidance and carry out their vision.

Site Assessments

Whether it's the disturbing sounds of buzzing AC units outside a window or the vibration from a rumbling elevator, there is a heightened sensitivity to noise and vibration, and an increased demand in creating peaceful environments. We have built a team of dedicated on-call expert troubleshooters who are available to go onsite to quickly assess issues.

WORKINGBUILDINGS | CERAMI | LONGMAN LINDSEY | VALCOUSTICS | JAFFE HOLDEN



NYU JOHN A. PAULSON CENTER New York, NY
Services: Acoustic Design, Audiovisual, IT and Security Consulting

WHO WE ARE

EXPERIENCE

Vibration

Our team assesses, monitors and mitigates vibration in buildings, structures and construction sites. We provide the expert insight into monitoring protocol that is right for the situation, smartly analyze the collected data, and provide design solutions that work. Our vibration monitoring project experience includes research facilities, hospitals, transportation hubs, high-rise office buildings, hotels, museums, retail, residential buildings and private homes.

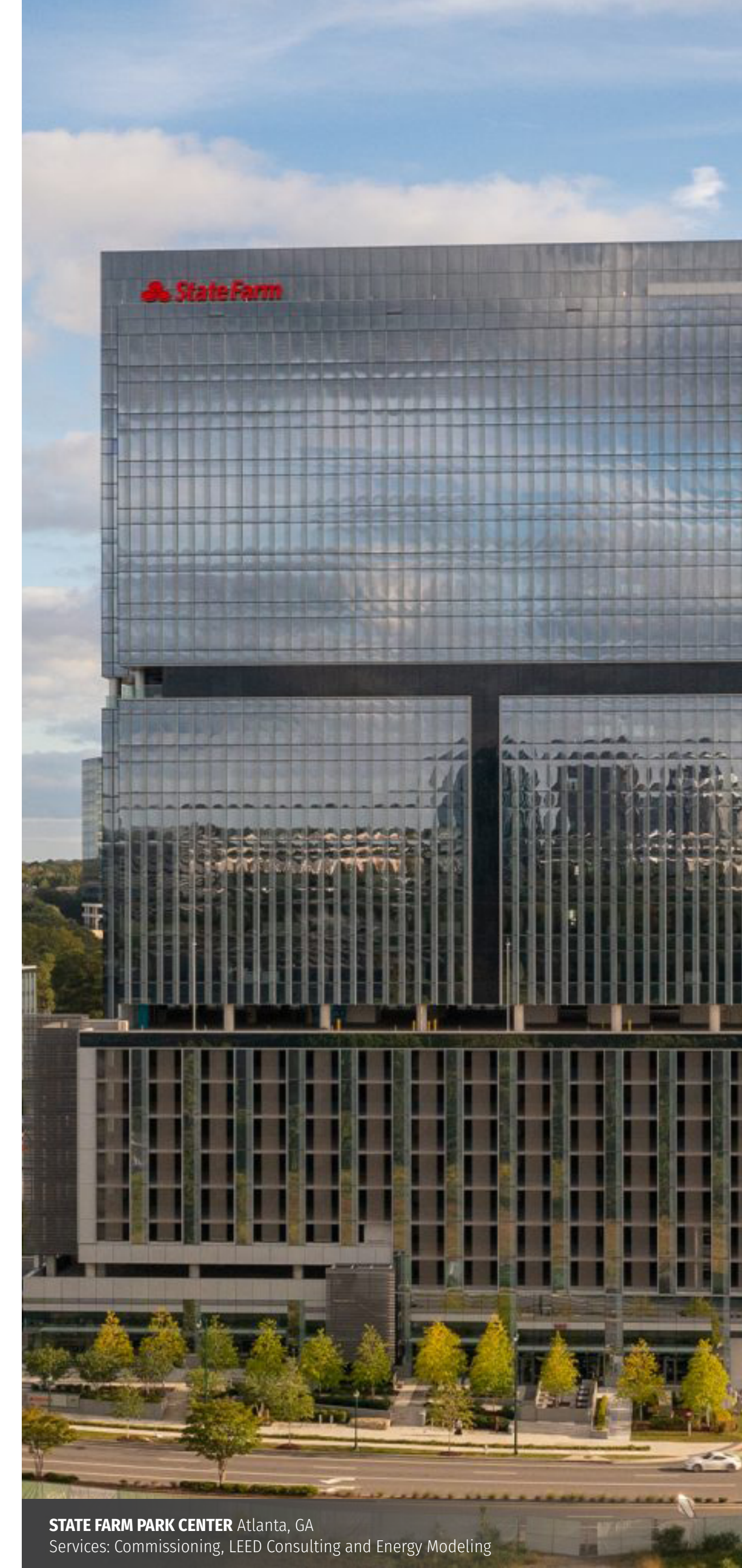
Commissioning

Our commissioning philosophy centers on collaboration, mutual respect, and shared responsibility, recognizing that every stakeholder— from owner to operator—contributes to a project's success. We view commissioning not as a checklist but as a proactive quality assurance process that fosters open communication, idea sharing, and problem-solving to achieve the highest standards of performance. Our multidisciplinary team of engineers, architects, and technicians brings deep expertise to guide design, oversee construction, perform testing, and ensure facilities operate as intended from day one, delivering seamless, user-centered results.

Sustainability

Through expert noise and vibration assessments, construction monitoring, and acoustic design for buildings and infrastructure, Valcoustics supports sustainable development by helping clients meet regulatory requirements and minimize environmental impacts. Their work not only enhances community well-being by reducing unwanted noise and vibration, but also ensures that urban and industrial projects are built with long-term resilience in mind. By combining technical expertise with a commitment to environmental responsibility, Valcoustics contributes to healthier, more sustainable communities across Canada.

WORKINGBUILDINGS | CERAMI | LONGMAN LINDSEY | VALCOUSTICS | JAFFE HOLDEN



STATE FARM PARK CENTER Atlanta, GA
Services: Commissioning, LEED Consulting and Energy Modeling

WHO WE ARE

EXPERIENCE

We allow you to hear your space before it's built.

By making the subjective, objective, we've changed the paradigm for communicating acoustic information. Before forming our Acoustic Reality Studio (ARS), we could only describe to you what a space would sound like. Now, when you use our ARS, you get to listen to the impact of your design choices so you are not guessing what your space will sound like – you are hearing it for yourself at the design stage.

Using bespoke architectural models, our Acoustic Reality and Sound Simulation software allows clients to walk through a proposed restaurant, for example, and experience the rowdy bar crowd that threatens to drown out dinner conversation or to sit at the coveted window table subject to sirens and horns blaring outside. No more interpreting decibel levels for context. Or guessing if the triple-glazed glass curtain wall is necessary. Instead, you decide what works and what doesn't by making changes on the fly, until everything sounds just the way it's envisioned.

We invite clients to experience our Acoustic Reality System with the ultimate purpose of providing the only real way to make multi-million-dollar decisions based on what is heard, not hearsay.

WORKINGBUILDINGS | CERAMI | LONGMAN LINDSEY | VALCOUSTICS | JAFFE HOLDEN



OUR SERVICES INCLUDE (BUT ARE NOT LIMITED TO):

- Acoustic Reality
- Sound Simulation

OUR EXPERIENCE

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

CORE & SHELL

Whether it's timber, concrete or steel, acoustic and technology solutions are paramount to the overall success.

At Trinity Consultants, we bring over five decades of experience delivering integrated solutions for Core & Shell projects — both inside and out. Whether a structure is concrete, steel, or timber, our approach ensures that acoustics, technology, and sustainability form a seamless foundation for long-term building success.

Acoustics and Mechanical Integration

Every project begins with a thorough understanding of the proposed site and its acoustical context. Mechanical system design is central to achieving the target acoustical criteria that prospective tenants expect. Because our corporate interiors portfolio is extensive, we think like tenants, anticipating their questions and addressing their concerns before they arise.

Expertise Across Building Types

Concrete and steel buildings are our specialty. At the same time, we have become industry leaders in mass timber, setting benchmarks for acoustics in this sustainable construction method. Our team understands how to harness the beauty of these materials while maintaining high performance standards.

Technology, Security, and Connected Systems

WORKINGBUILDINGS | CERAMI | LONGMAN LINDSEY | VALCOUSTICS | JAFFE HOLDEN



CIBC SQUARE
Toronto, Ontario

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

Our work extends beyond acoustics. We integrate audiovisual, IT, and security systems to create fully connected buildings. These disciplines intersect with acoustical and sustainable design, producing environments that perform holistically rather than as isolated systems.

Commissioning Services

Commissioning is critical to ensure systems perform as designed. Our team validates that all mechanical, electrical, acoustical, and technology systems operate efficiently and in harmony with one another. This process ensures buildings are delivered to owners and tenants with confidence in reliability, compliance, and long-term performance.

Sustainability and Wellness

Sustainability is at the core of our practice. We’ve consulted on hundreds of Core & Shell projects that have achieved LEED and WELL certifications, helping clients meet ambitious goals for environmental stewardship and occupant wellness. Our approach recognizes that sustainability extends beyond selecting green materials — it requires integrated design thinking that enhances both building performance and tenant experience.

Tenant Experience and Building Amenities

We recognize that amenities are essential to tenant happiness and retention. Our team carefully studies spatial adjacencies and designs for proper isolation, ensuring that shared spaces such as fitness centers, lounges, or cafes do not interfere with leasable areas. This thoughtful design supports both building marketability and occupant satisfaction.

Trinity Consultants delivers practical, forward-looking solutions for Core & Shell projects. By combining acoustics, technology, commissioning, and sustainability services, we set the foundation for spaces where people and businesses can thrive.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

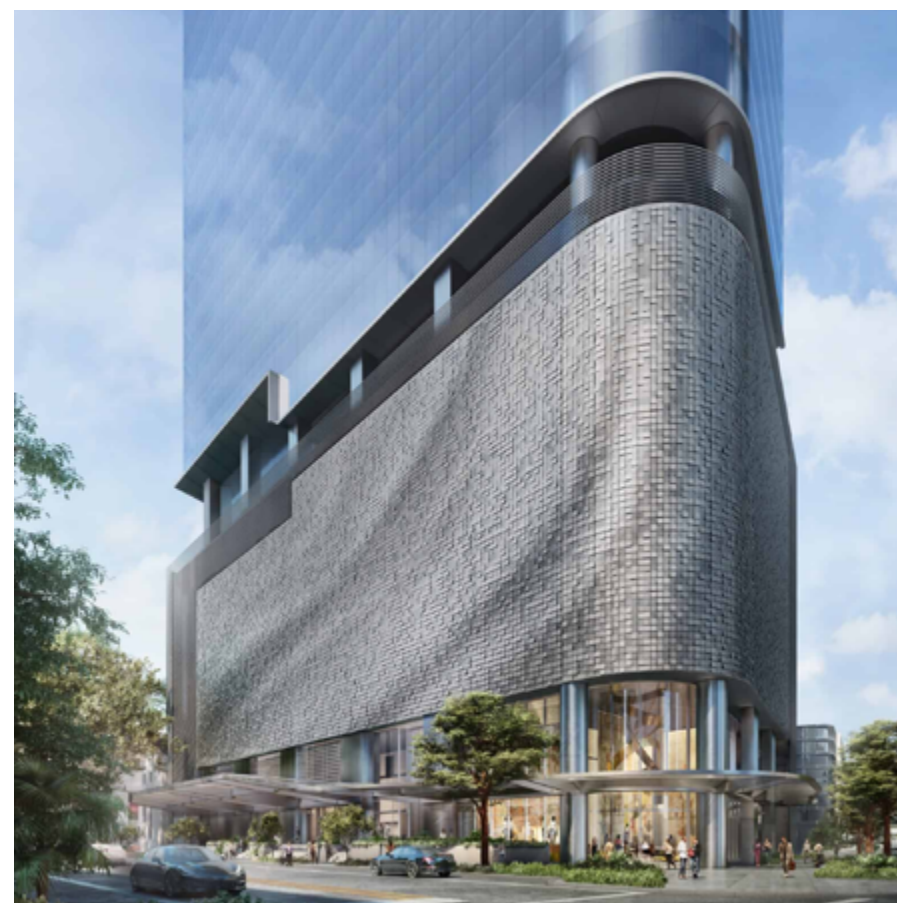
CORE & SHELL PROJECT EXPERIENCE



ONE VANDERBILT

NEW YORK, NY | 1.7 MIL SQFT

With millions of people lining to go up in a fully glazed elevator aptly called Ascent, for the most spectacular sweeping views in NYC, we needed to create an acoustic experience in line with the total experience. The problem was adjacent cooling towers, all running at 100%. Using Cerami's Acoustic Reality System™, we were able to test different cooling tower design options, virtually, so that JB&B, SL Green and Tishman could hear how each option would impact the experience before making the final decision.



830 BRICKELL

MIAMI, FL | 1 MIL SQFT

830 Brickell, the first A+ freestanding office tower in Miami's financial center, rises 57 stories and spans 1,030,000 square feet above an eight-story garage wrapped in a dynamic kinetic wall. Cerami is providing integrated acoustics, audiovisual, IT, and security consulting, including glass solutions to mitigate traffic noise, core and shell acoustical design for mechanical systems, and energy-efficient glazing to ensure Class A interior acoustics. Our audiovisual scope features a lobby video wall, ambient music, and conferencing systems for the Conference Center, with consistent capabilities and user interfaces across all spaces

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY



SALESFORCE TOWER CHICAGO

CHICAGO, IL | 1.5 MIL SQFT

Our firm was engaged as the acoustic consultant for this gem of a building and we have been working with Hines on core and shell design on the South Tower, concentrating on the façade attenuation and interior acoustical separation between tenant floors. A big undertaking has been in the careful planning for vertical and horizontal components to minimize vibration between the fitness center and conference area, as well as occupied spaces above and below.



RBC SIMCOE PLACE CENTRE

TORONTO, ONTARIO | 1.3 MIL SQFT

A 43-storey office tower development, on the outskirts of Toronto's financial district, achieved LEED Gold status. Our firm provided full range of acoustical engineering services for the base building design. The scope included noise and vibration control between adjacent floors/units and mechanical systems, as well as preparation of an Acoustic Assessment Report in support of the Certificate of Approval (now known as an Environmental Compliance Approval) application for the diesel generators.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

COMMERCIAL

The right combination of acoustics and technology results in a seamless and comfortable environment that works.

At Trinity Consultants, our mission in commercial environments is simple: when the acoustics of a space go unnoticed, our design is a success. We carefully balance the many variables of acoustical and technology design, working closely with clients to understand the intended use of each space and tailoring our solutions to bring their vision to life.

Acoustics for Privacy and Clarity

In workplace environments, successful design begins with acoustics. We ensure speech privacy so conversations remain confidential between adjacent offices, and we deliver speech intelligibility so voices are clear and natural in meeting rooms and conference spaces. By eliminating distractions and enhancing communication, we create environments that empower productivity and collaboration.

Technology and Infrastructure

We help clients define their goals and design the technology to achieve them. By building resilient, adaptable infrastructure into each project, we future-proof commercial spaces against advancing technology. From modular offices with simple networks to multi-story headquarters with complex systems, we apply the same meticulous methodology.

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LORD ABBETT
New York, NY

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

Our expertise spans network infrastructure, audiovisual, IT, and security systems, all integrated to enhance functionality while supporting user comfort and confidence. Security solutions not only protect physical spaces but also provide peace of mind to employees and leadership alike.

Commissioning Services

Commissioning is a cornerstone of our commercial work. Our team validates that every system—mechanical, electrical, acoustical, and technological—operates at peak performance. Sustainability, energy optimization, and system performance drive every decision. We simulate alarms, test operational scenarios, and refine sequences to ensure systems respond as intended. Long-term operability remains a priority, so maintainability and serviceability are built into our process. Just as important, we maintain integrated communication with design, construction, and ownership teams to ensure seamless delivery.

Sustainability and Wellness

Sustainability is at the forefront of our commercial practice. Beyond selecting environmentally responsible materials, we integrate strategies that support energy efficiency, occupant health, and long-term resilience. Our work aligns with LEED and WELL certification goals, helping organizations meet ambitious environmental and wellness standards while enhancing the day-to-day experience of employees.

Trinity Consultants delivers acoustic, technology, commissioning, and sustainability solutions that transform commercial spaces into environments where privacy, performance, and wellness converge. By designing with the future in mind, we create places that inspire people and support organizational success.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

COMMERCIAL PROJECT EXPERIENCE



BAKER BOTTS

WASHINGTON, DC | 103,000 SQFT

Baker Botts' new headquarters at 700 K Street serves as the building's anchor tenant, with flexible, future-ready offices designed for collaboration, growth, and technology integration. Our team delivered IT, acoustics, audiovisual, and security systems across this and other Baker Botts locations, ensuring infrastructure that supports 15 years of evolving needs while mitigating risks through protective measures and system safeguards. The space emphasizes staff well-being with inviting, consistent room designs, seamless wireless connectivity indoors and outdoors, and collaborative digital displays, all reinforced by integrated security and access control systems. Our firm also delivered integrated acoustical and technology design solutions for Baker Botts' offices in San Francisco, Austin, Houston, and London.



DISNEY NYC CAMPUS

NEW YORK, NY | 1 MIL SQFT

Our firm provided IT, AV, security and acoustical consulting for Disney's downtown NYC campus consolidation. Our strategy consulting role includes developing the technology vision and strategy to combine many different business entities into one campus, integrating their disparate communication and collaboration solutions into a common platform. Our design and implementation role includes full design and implementation oversight for 650,000 sq. ft. of workplace, 250,000 sq. ft. of broadcast, and over 140,000 sq. ft. of amenity space. The objective of the project is to enable seamless collaboration between business units, through technology solutions that facilitate a unified culture and are always on and ready for anything.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY



MICROSOFT ATLANTA CAMPUS

ATLANTA, GA | 523,000 SQFT

WorkingBuildings performed commissioning services for Microsoft Corporation’s new Atlantic Yards campus. Located in the heart of the Midtown, one of Atlanta’s most vibrant and bustling neighborhoods, the Atlantic Yards campus is close to public transportation stations, key Microsoft customers and partners, premier dining and shopping, and a handful of Georgia colleges and universities, making it a prime location to both engage with Atlanta’s community and access the city’s offerings. Further, the campus is adjacent to Atlantic Station, a neighborhood known as a top innovation district and an up-and-coming technology hub.



AMERICAN EXPRESS (AMEX)

TORONTO, ONTARIO

Our firm provided acoustical design assistance for the tenant fit up of a 10 storey state of the art office building at 2225 Sheppard Avenue East in Toronto for American Express (AMEX). The new facility accommodates approximately 2200 employees and features a variety of exclusive spaces, such as a cafeteria, a wellness centre and fitness centre with a swimming pool and tennis courts, and an on site Montessori daycare centre. Valcoustics provided a full range of acoustical engineering consulting services for the fit up, including interior room acoustics (to control reverberation), sound isolation between spaces to obtain the desired level of acoustical privacy, and noise and vibration control of mechanical equipment.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

EDUCATION

Blending the physical and digital to support hybrid active learning.

At Trinity Consultants, we understand the unique requirements that distinguish educational institutions of all types and sizes. Our designs have supported both historic and modern facilities across all levels of education, delivering environments that enhance learning, collaboration, and well-being. From primary schools to universities, we tailor our approach to meet the specialized needs of each institution.

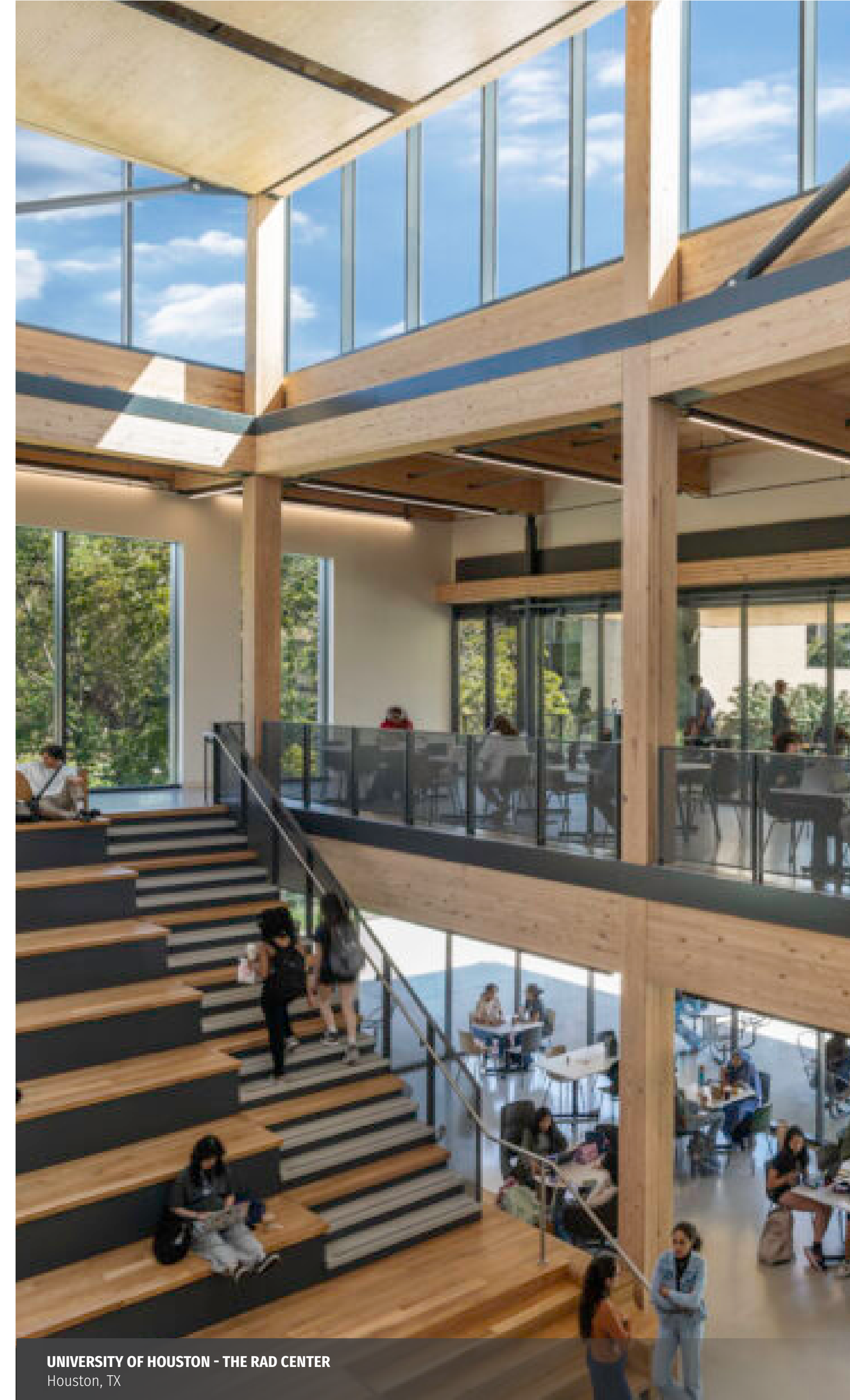
Acoustic Considerations

Acoustic design plays a vital role in education. While needs vary by facility, three objectives remain constant: improving speech intelligibility in classrooms and lecture halls, managing noise in specialized spaces such as dining halls and research labs, and preventing the transmission of unwanted noise both within and beyond the building. By meeting these goals, we create environments that allow students and educators to focus, communicate, and thrive.

Technology and Future-Ready Learning

Technology is now integral to teaching and learning. Our designs ensure that classrooms and lecture halls are equipped with audiovisual and IT systems that support today's requirements while anticipating tomorrow's innovations. From mobile device interactivity and multimedia presentations to streaming, archiving, and distance learning, we provide resilient, flexible, and standards-compliant infrastructures. These solutions enable institutions to remain adaptable as technology continues to evolve.

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UNIVERSITY OF HOUSTON - THE RAD CENTER
Houston, TX

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

Commissioning Services

Commissioning (CxA) is essential to ensuring educational facilities operate efficiently, reliably, and in compliance with standards. We confirm that HVAC systems maintain required pressure differentials, temperature, humidity, and particulate levels. We verify that utilities such as purified water, clean steam, and compressed air meet rigorous performance and reliability criteria. Our process goes beyond installation, validating that systems function consistently to deliver compliant, long-term performance. In addition, we simulate operational scenarios, test alarms, and refine system sequences to ensure building infrastructure supports both safety and sustainability.

Sustainability and Wellness

Sustainability is central to our work in education. We are well-versed in LEED® certification criteria and sustainable design principles, ensuring that acoustical priorities such as low ambient noise and effective speech privacy are met while supporting energy efficiency and occupant wellness. Our technology designs also incorporate ENERGY STAR® qualified products, integrated lighting and shading controls, occupancy sensors, and GREENGUARD® certified materials. By combining performance with sustainability, we help institutions create inspiring, adaptable, and environmentally responsible learning spaces.

Trinity Consultants delivers holistic solutions for education—integrating acoustics, technology, commissioning, and sustainability. Our work creates learning environments that are intelligent, efficient, and future-ready, enabling students and educators to succeed in spaces designed for clarity, comfort, and long-term value.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

EDUCATION PROJECT EXPERIENCE



NYU JOHN A. PAULSON CENTER

NEW YORK, NY | 735,000 SQFT

The 735,000-square-foot Paulson Center is a state-of-the-art, multi-use campus combining academic spaces, a sports complex, performing arts theaters, instructional rooms, common areas, and housing for students and faculty. What made this massive development incredibly challenging was the rapid progression of technology over the years. It was paramount for us to keep up with the latest equipment and ensure the building infrastructure worked with the technology of today. The building's diverse functions also introduced complex acoustical demands. Our team provided integrated acoustical and technology solutions to create optimal learning and teaching environments for NYU.



PRINCETON UNIVERSITY RESIDENTIAL COLLEGES

PRINCETON, NJ | 485,000 SQFT

Our goal in designing the AV, IT, Security and Acoustics at Princeton's new residential colleges was connections: to campus, to athletics, to recreation, to community and to each other. To that end, we designed an almost completely wireless environment, where residents can eat, sleep, study, socialize, work out and work with invisible infrastructure that is always there to support them. The smart security knows who is permitted where and when and is again, invisible. As are the acoustics, which enhance each space and cater to the particular amenity.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY



NORTH CAROLINA STATE PLANT SCIENCES BUILDING

RALEIGH, NC | 185,000 SQFT

WorkingBuildings commissioned NC State University’s \$160 million, 185,000-sq-ft Plant Sciences Building, opened in 2022 as the hub of the Plant Sciences Initiative with the state Department of Agriculture. The facility includes labs, offices, conferencing spaces, growth chambers, and BSL-2P/3P greenhouse labs for multidisciplinary research. Our work covered MEP, life safety, and lab systems, supporting LEED Gold certification by ensuring efficient operation of advanced energy, cooling, lighting, and water recovery systems. The client was fully satisfied with our services.



GEORGETOWN DAY SCHOOL

WASHINGTON, DC | 155,000 SQFT

Our team helped Georgetown Day School realize its vision for the future through an integrated acoustic, audiovisual, IT and security design. We designed a robust IT infrastructure that support the school’s needs, as well as audiovisual systems for conferencing and presentations. Electronic Security Systems were also implemented, which includes electronic access control and video surveillance systems. We also ensured stellar acoustical performance was achieved throughout all areas of the facility. We worked with the design team to make sure that the acoustical concerns such as adequate speech privacy and low noise levels are addressed while simultaneously being able to meet the high-performance demands of sustainability.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

RESIDENTIAL

Blurring the lines between residential and office.

At Trinity Consultants, we recognize that in residential developments — from high-rise towers to small multi-unit projects — acoustical engineering, technology design, commissioning, and sustainability are critical to creating spaces that residents can truly call home. Our designs ensure that comfort, privacy, and adaptability remain at the forefront of every project.

Acoustic Comfort and Noise Control

Acoustic separation, both horizontally and vertically, is essential to resident satisfaction. We design to minimize noise and vibration transfer between units while controlling sound from building systems such as mechanical, electrical, elevator, and plumbing infrastructure. Just as important is the mitigation of noise from external sources like highways, subways, railways, and air traffic. By addressing these challenges, we create living environments that feel quiet, private, and restorative.

Technology-Enabled Living

As residential amenities evolve, integrated technology has become a defining factor in attracting and retaining tenants. Our designs deliver resilient, future-ready AV/IT infrastructure that brings corporate and hospitality-level capabilities into residential settings. With more than 70% of residents preferring hybrid work models, demand has grown for enhanced privacy, better room acoustics, and flexible amenity spaces that seamlessly support both professional and personal activities. We deliver robust, intuitive, and adaptable technology solutions that enhance daily life while adding long-term value to the property.

WORKINGBUILDINGS | CERAMI | LONGMAN LINDSEY | VALCOUSTICS | JAFFE HOLDEN



AMAN MIAMI
Miami, FL

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

Sustainability and Wellness

Sustainability is now a core expectation in residential living. We incorporate environmentally responsible strategies into every project, helping developments meet LEED® and WELL standards while enhancing resident wellness. Our designs support energy efficiency through advanced controls, occupancy-based systems, and the integration of sustainable materials. By aligning acoustical, technological, and mechanical priorities with sustainability goals, we create spaces that are both high-performing and environmentally responsible.

Trinity Consultants helps residential projects deliver quiet, connected, and sustainable living environments. By integrating acoustics, technology, and sustainability, we set a new standard for modern residences that support comfort, privacy, productivity, and long-term well-being.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

RESIDENTIAL PROJECT EXPERIENCE



AMAN MIAMI BEACH

MIAMI BEACH, FL | 444,000 SQFT

Our firm was selected to provide acoustical consulting for Aman Miami Beach, elevating the experience for both guests and residents. Designed by Kengo Kuma, the development features 56 luxury guest suites and an exclusive 22-unit residential tower, where wraparound terraces and floor-to-ceiling windows frame sweeping views of the Atlantic Ocean. Through our acoustic solutions, we helped bring the Aman brand's signature lifestyle to an urban setting—delivering privacy, comfort, and an enhanced sense of place.



300 M STREET, NE

WASHINGTON, DC | 400,000 SQFT

300 M Street is a 400-unit, 400,000-square-foot luxury residential building featuring high-end amenities such as a rooftop garden, pool, club room, fitness center, 12,000 square feet of groundfloor retail, and underground parking. Acoustical criteria were established to ensure residential comfort, with targeted noise and vibration control for HVAC systems, elevators, and rooftop equipment. Specialized floor and slab isolation details enhanced sound privacy, especially for top-floor units near the rooftop pool and dog park. Extensive environmental studies also informed façade and window design to reduce external noise transmission.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY



THE GALLERIA PLAZA REDEVELOPMENT, BLOCK 5

TORONTO, ONTARIO

The project consists of the redevelopment of the Galleria Shopping Centre at the southwest corner of Dupont Street and Dufferin Street into a mixed-use development. Block 5 of the development will include two towers at 26-storeys and 21-storeys consisting of condominium and affordable housing units, with a shared podium and five levels of underground parking. In addition, there will be 25,000 ft2 of retail and 7,000 ft2 of office on the ground and podium levels. Valcoustics is providing a full range of acoustical consulting services as part of the design team, including sound isolation between spaces, mechanical noise and vibration control, environmental (exterior) noise control, and preparation of a Noise Impact Statement and a Railway Noise Analysis to support the Site Plan Approval application.



MANDARIN ORIENTAL NEW YORK

NEW YORK, NY | 200,000 SQFT

Our team provided expert acoustic consulting services for the Mandarin Oriental Residences in downtown New York City, ensuring a quiet, luxurious living experience throughout the 200,000-squarefoot development. The project involved renovating a 20-story structure and constructing five new floors, all while maintaining acoustic integrity across mixed-use spaces. Our solutions supported the seamless integration of premium amenities—including a rooftop pool and a fifth-floor gym, weight room, and spa—by minimizing noise transfer and enhancing overall comfort for residents.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

AIRPORTS AND TRAVEL HUBS

Reducing the stress of travel through seamless technology and acoustic design.

At Trinity Consultants, we understand that airports and transportation hubs are more than just points of transit — they are complex environments where efficiency, comfort, and reliability define the traveler's experience. Reducing the stress of travel through frictionless interactions is essential to achieving world-class status as both a travel hub and a destination of distinction. Our integrated services in acoustics, technology, commissioning, and sustainability are designed to deliver environments that perform seamlessly, enhance user experience, and stand the test of time.

Acoustics for Clarity and Comfort

Acoustic design in airports and travel hubs is a whole-building discipline that addresses three fundamental challenges: achieving intelligibility for clear communication, enhancing speech privacy where appropriate, and eliminating disruptive internal and external noise and vibration. The unique acoustical demands of these facilities require balancing multiple noise sources — from passengers and concessions to mechanical, electrical, and plumbing systems — while maintaining an environment that feels calm and navigable. We work closely with clients, architects, and engineers to meet these goals in practical, cost-effective ways.

WORKINGBUILDINGS | CERAMI | LONGMAN LINDSEY | VALCOUSTICS | JAFFE HOLDEN



PITTSBURGH INTERNATIONAL AIRPORT
Pittsburgh, PA

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

Technology and Systems Integration

Paging systems, audiovisual displays, and IT networks play a central role in traveler experience. Our audiovisual team designs paging systems that adapt to fluctuating ambient noise levels, incorporating sensing devices for intelligibility, ADA compliance, and seamless integration with Flight Information Display Systems (FIDS). We also ensure that pre-recorded announcement systems are easy to update and maintain. Beyond AV, our IT and security system designs emphasize flexibility, reliability, and compliance with evolving standards, ensuring that critical infrastructure can adapt to changing technologies while maintaining security and efficiency.

Commissioning Services

Commissioning (CxA) is vital to ensure that transportation facilities operate as intended, especially given their high occupancy, roundthe- clock usage, and safety-critical systems. We verify that HVAC, electrical, IT, security, and acoustical systems deliver consistent performance under real-world operating conditions. Our team simulates alarms, tests system responses under variable loads, and optimizes sequences to ensure resilience and reliability. By prioritizing maintainability and serviceability, we help ensure that these complex facilities remain efficient, compliant, and reliable long after opening day.

Sustainability and Resilience

Sustainability is a growing priority for airports and travel hubs worldwide. We incorporate environmentally responsible practices into every project, aligning with LEED®, WELL®, and other sustainability standards. Our designs address both acoustical performance and energy efficiency by integrating noise control with high-performance building systems. Strategies such as advanced lighting and shading controls, occupancy-based systems, energy-efficient equipment, and sustainable material selection reduce environmental impact while enhancing traveler comfort.

Trinity Consultants delivers holistic solutions for airports and travel hubs — combining acoustics, technology, commissioning, and sustainability. By creating spaces that are clear, connected, resilient, and environmentally responsible, we help transform transportation facilities into destinations that elevate the traveler experience and stand as benchmarks of modern design.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

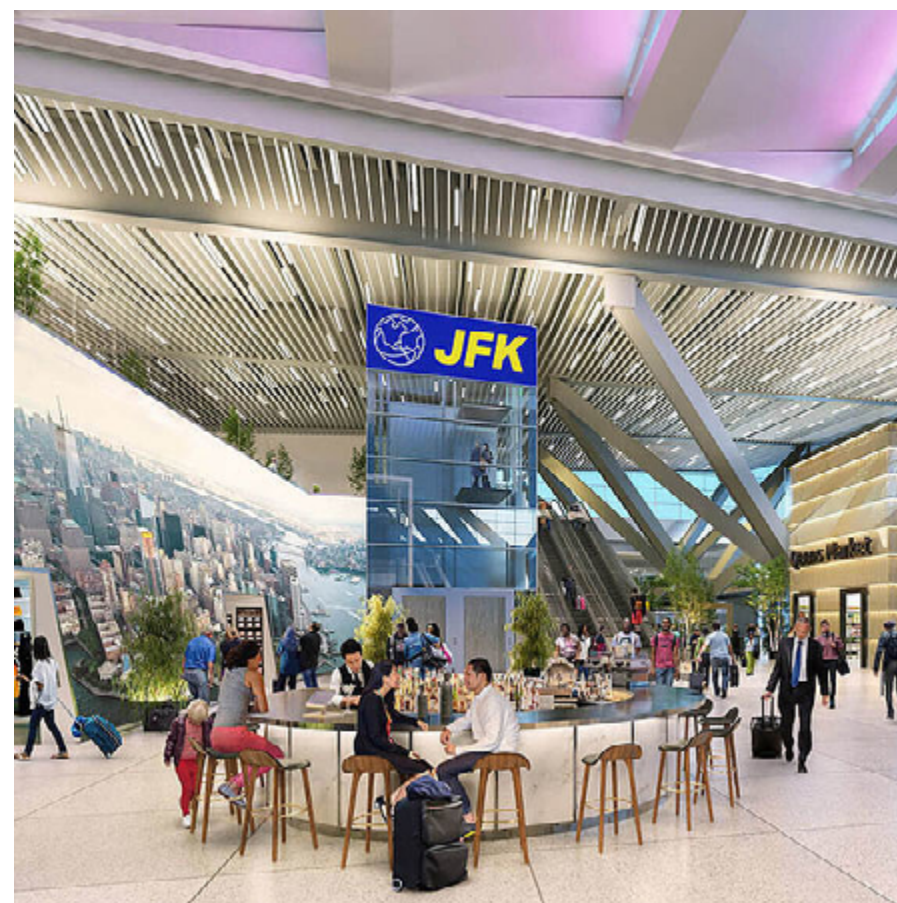
AIRPORTS & TRAVEL HUBS PROJECT EXPERIENCE



SAPPHIRE LOUNGE AT SAN DIEGO INTL. AIRPORT

SAN DIEGO, CA | 11,000 SQFT

For its first Sapphire Lounge on the West Coast, Chase has created an 11,000-square-foot retreat in Terminal 2 West of San Diego International Airport (SAN) that embodies the city's coastal lifestyle. Drawing inspiration from La Jolla's surf culture and the artistic spirit of Balboa Park, the space blends luxury with a laid-back Southern California vibe. Our firm was brought on to provide acoustical consulting services, ensuring that the lounge's design delivers not only visual beauty but also an exceptional auditory experience, transforming the atmosphere into one of seamless relaxation, comfort, and sophistication.



JFK INTERNATIONAL AIRPORT TERMINAL ONE

QUEENS, NY | 3 MIL SQFT

The project encompasses a 3 million square foot international terminal that forms a key component of the comprehensive \$13 billion redevelopment plan for the JFK campus, establishing it as the new gateway to New York. Terminal One will feature 23 gates dedicated to international widebody aircraft, designed to provide a world-class passenger experience. Our firm has been selected to serve as the audiovisual and acoustical consultant for this prestigious endeavor.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY



NEWARK LIBERTY INTL. AIRPORT TERMINAL ONE

NEWARK, NJ | 1 MIL SQFT

A new \$1.41 billion terminal is set to be constructed at Newark Liberty International Airport. Terminal One will encompass 1 million square feet and feature 33 gates in a two-level T-shaped configuration. This terminal is designed to be significantly more modern, efficient, and spacious compared to the previous Terminal A. Our firm has been selected to provide acoustical, information technology, and audiovisual consulting services for this project.



LAGUARDIA AIRPORT CONCOURSE B

QUEENS, NY | 1.3 MIL SQFT

The \$4 billion renovation project involved replacing dated stainless-steel columns and low ceilings with an airy, art-filled concourse dotted with trees, natural light, and soaring 60-foot ceilings. Our mission from the Port Authority was resolute: make the customer feel better. To that end, we designed the concourse, terminals, pedestrian bridge, ticketing gates, and headhouse, so they are as welcoming as possible, reducing the stress of flying for passengers and creating a calm environment for airport staff. Even the TSA offices and baggage claim area weren’t overlooked. Extra care was taken in designing specific noise control measures for things like the baggage handling conveyors, which aren’t even visible to passengers.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

LIFE SCIENCE

Safeguarding state-of-the-art laboratories and research facilities.

At Trinity Consultants, we understand the precision and rigor required to design environments for life sciences. From advanced research laboratories to large-scale pharmaceutical facilities, our work supports spaces where innovation thrives, and compliance is critical. We deliver solutions in acoustics, vibration control, technology, commissioning, and sustainability to help institutions create quiet, stable, and high-performing environments.

Acoustic and Vibration Control

Laboratories and research facilities rely on high-resolution instruments and sensitive processes that demand ultra-low noise levels and controlled vibration. We specialize in both building-level acoustic design and the isolation of vibration-sensitive equipment. Our process begins with site investigations to identify sources of noise and vibration, followed by targeted engineering strategies for mitigation. Whether addressing external environmental impacts or internal building systems, our expertise ensures that research can proceed without disruption or compromise.

Technology for Research and Collaboration

Life sciences environments also require advanced audiovisual and IT solutions to support instruction, research, and collaboration. From paging systems and SMART Boards to videoconferencing tools and integrated AV carts, our designs support hybrid teaching, global research collaboration, and efficient facility operations. We prioritize resilient infrastructure that meets today's requirements while anticipating tomorrow's needs, ensuring adaptability as technology continues to evolve.

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LEVIT GREEN
Houston, TX

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

Commissioning Services

Commissioning (CxA) is critical in life sciences facilities, where safety, compliance, and reliability are non-negotiable. We confirm that HEPA filtration, airflow patterns, and contamination controls meet stringent regulatory requirements. Utilities such as purified water, clean steam, and compressed air are verified for reliability and performance. HVAC systems are tested to ensure they maintain required pressure differentials, temperature, humidity, and particulate levels. Beyond installation, we validate that systems operate consistently under real-world conditions through scenario simulations, alarm testing, and sequence optimization. This process ensures facilities perform as designed and remain compliant with Good Manufacturing Practice (GMP) and other industry standards.

Sustainability and Wellness

In addition to performance and compliance, sustainability is a growing priority in life sciences. Our team integrates environmentally responsible design principles, aligning with LEED® and WELL® standards while balancing strict technical requirements. Energy efficient technologies, advanced controls, and responsible material selection help reduce environmental impact without compromising precision. By uniting acoustics, vibration control, and sustainability strategies, we deliver environments that are both scientifically rigorous and environmentally conscious.

Trinity Consultants helps life sciences organizations create research and production facilities that are quiet, precise, compliant, and sustainable. By integrating acoustics, technology, commissioning, and sustainability, we enable environments where scientific discovery and innovation can flourish.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

LIFE SCIENCE PROJECT EXPERIENCE



60 GUEST STREET

BOSTON, MA | 320,000 SQFT

Lendlease and Ivanhoé Cambridge teamed up to develop a transformative 1.15-acre project featuring a state-of-the-art life science building at 60 Guest Street, a prime parcel within the vibrant Boston Landing campus in Allston/Brighton, Massachusetts. Designed to attract leading biotech and pharmaceutical companies, the facility offered world-class amenities, advanced laboratory and research spaces, and collaborative environments tailored to the needs of life science innovators. Our firm was engaged to provide comprehensive acoustic and vibration consulting to ensure optimal performance of sensitive equipment, enhance occupant comfort, and support the building's mission-critical research functions.



NEW JERSEY PHEAL

EWING, NJ | 200,000 SQFT

WorkingBuildings, part of Trinity Consultants, has played a critical role in keeping the New Jersey Public Health, Environmental and Agriculture Laboratory (NJPEAL) running smoothly for more than a decade. Initially brought in to support the facility's transition after construction, the team continues to oversee daily operations, preventive and corrective maintenance, and regulatory compliance for the 200,000-square-foot lab complex and its mobile BSL-3 units. By managing everything from mechanical and electrical systems to janitorial, landscaping, and security services, WorkingBuildings ensures the lab meets operational, financial, and scientific goals while maintaining 100% uptime and consistently passing BSL-3 reverifications. With predictive maintenance, root-cause analysis, and proactive upgrades, the team minimizes downtime, preserves the facility's "like-new" condition, and enables the state to protect public health with confidence and efficiency.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY



SCHUYLKILL YARDS 3151 MARKET STREET

PHILADELPHIA, PA | 500,000 SQFT

Schuylkill Yards is a next-generation innovation community in Philadelphia, strategically positioned between the city’s economic and academic centers at the region’s primary transportation hub. Brandywine is developing a 12-story, 500,000-square-foot glass tower featuring a 19,000-square-foot vivarium, eight floors of lab and office space, and three additional office floors, along with retail. Our firm was engaged as the acoustical, audiovisual, IT, and security consultant, supporting seamless technology integration, optimal performance, and a secure, high-performance environment.



ALABAMA PUBLIC HEALTH LABORATORY

MONTGOMERY, AL | 65,000 SQFT

WorkingBuildings supported the State of Alabama in developing its new Public Health Lab by contributing to early design and lab space planning, commissioning critical building systems, and developing SOPs and O&M budgets. After completion, the team provided transitional operations services, training state personnel on the facility’s complex systems, and continues to serve as a resource. The lab includes specialized spaces for tuberculosis, microbiology, newborn screening, FERN, lead, radiation, water, dairy testing, and a BSL-3 Select Agent lab, and the client has expressed full satisfaction with WorkingBuildings’ services.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

HEALTHCARE

We add hospital(ity) to healthcare facilities.

At Trinity Consultants, we know that in healthcare environments, the difference between good design and great design can be measured in patient outcomes, staff performance, and operational resilience. From hospitals and outpatient clinics to complex laboratories, we deliver integrated solutions in acoustics, vibration control, technology, commissioning, and sustainability — ensuring that healthcare spaces are quiet, reliable, and supportive of healing.

Acoustic Design for Healing and Privacy

Controlling noise and vibration is one of the most significant acoustical challenges in today's healthcare facilities. We believe our design is a success when the acoustics of a space go unnoticed, creating environments that reduce stress, protect patient privacy, and support recovery. Proper acoustical planning also ensures clear staff communication, which is critical to safe and efficient care. We achieve high acoustical performance through careful sound isolation between rooms, the use of sound-absorptive materials, exterior envelope design, and strategies to isolate mechanical systems. Our expertise extends to vibration control, addressing both structural concerns and the isolation of sensitive medical equipment. By applying acoustic design both internally and externally, we help facilities achieve environments that are quiet, stable, and restorative.

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MAYO CLINIC
Rochester, MN

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EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

Compliance and Design Standards

Our team is highly knowledgeable in the FGI Guidelines for Hospitals and Outpatient Facilities, which outline criteria for exterior noise, acoustical finishes, in-room noise levels, sound isolation, paging and call systems, and vibration control. We also bring experience with the acoustical credits proposed in LEED® and WELL® certifications for healthcare, helping institutions align with sustainability and wellness objectives while maintaining patient-centered acoustical excellence.

Commissioning Services

Commissioning (CxA) is essential in healthcare facilities, where reliability and compliance are critical. We validate HVAC systems to meet infection control parameters, ensuring positive pressure in operating rooms, negative pressure in isolation rooms, and proper air changes, humidity, temperature, and HEPA filtration. Our work extends to verifying power infrastructure, including redundancy and resilience of generators, automatic transfer switches, and life safety circuits. We also commission critical low-voltage systems — such as nurse call, code blue, infant abduction, fire alarm, and CCTV — testing functionality, integration, and response reliability. This rigorous approach ensures that all systems perform consistently, safely, and in alignment with regulatory and operational requirements.

Sustainability and Wellness

Sustainability in healthcare goes hand-in-hand with patient and staff wellness. We integrate energy-efficient systems, responsible materials, and advanced controls to reduce environmental impact while enhancing building performance. Our designs support LEED® and WELL® certification pathways, ensuring that facilities not only meet technical and regulatory standards but also promote long-term resilience, energy efficiency, and human health.

Trinity Consultants delivers healthcare solutions that combine acoustics, commissioning, technology, and sustainability to create environments where patients heal, staff thrive, and systems perform reliably. By designing for clarity, comfort, compliance, and resilience, we help healthcare institutions achieve their mission of care.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

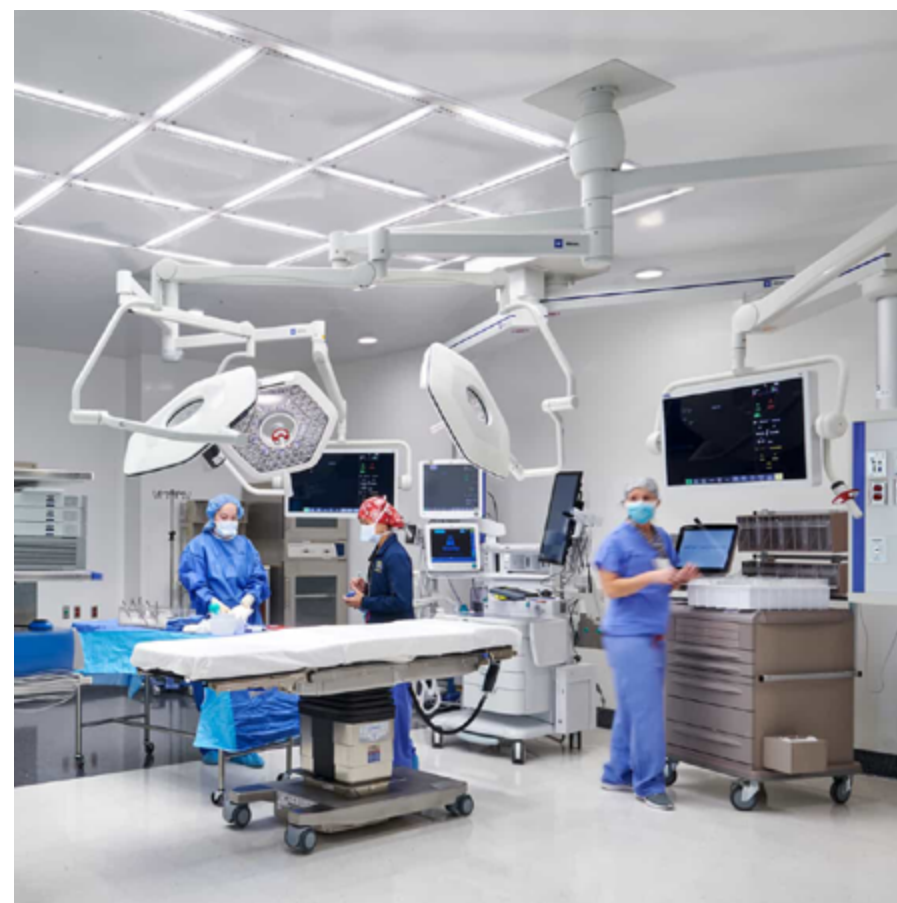
HEALTHCARE PROJECT EXPERIENCE



MASSACHUSETTS GENERAL HOSPITAL LUNDER BUILDING

BOSTON, MA | 535,000 SQFT

Our role comprised of ensuring noise control and considering patient privacy. All patient rooms are of single occupancy. This suggestion was made not only to prevent the spread of infections, but also to create a private space for patients and their family members while acoustically isolating the patient for optimal recuperation. We also made recommendations for acoustical separation between nursing pods to lower excessive noise generated by conversation and movement in halls. Working closely with NBBJ, we came up with a room layout that reduced acoustical reverberation. Acoustical ceilings and wall panels and rubber floors so installed to help improve unwanted sounds.



MEDSTAR GEORGETOWN UNIVERSITY HOSPITAL MEDICAL & SURGICAL PAVILION

WASHINGTON, DC | 487,400 SQFT

The construction of the new medical/surgical pavilion, will transform the way personalized care is delivered, deploy new technologies and meet the needs of families throughout the region and beyond. Our team developed and provided acoustic design criteria, with the goal to bring a sense of calm to all areas of the PX – from the underground parking garage to the emergency department that can be directly accessed from a rooftop helipad. We also collaborated with the structural engineers to ensure specific vibration criteria are met throughout the building in sensitive equipment areas, including operating room, imaging suites and laboratories.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

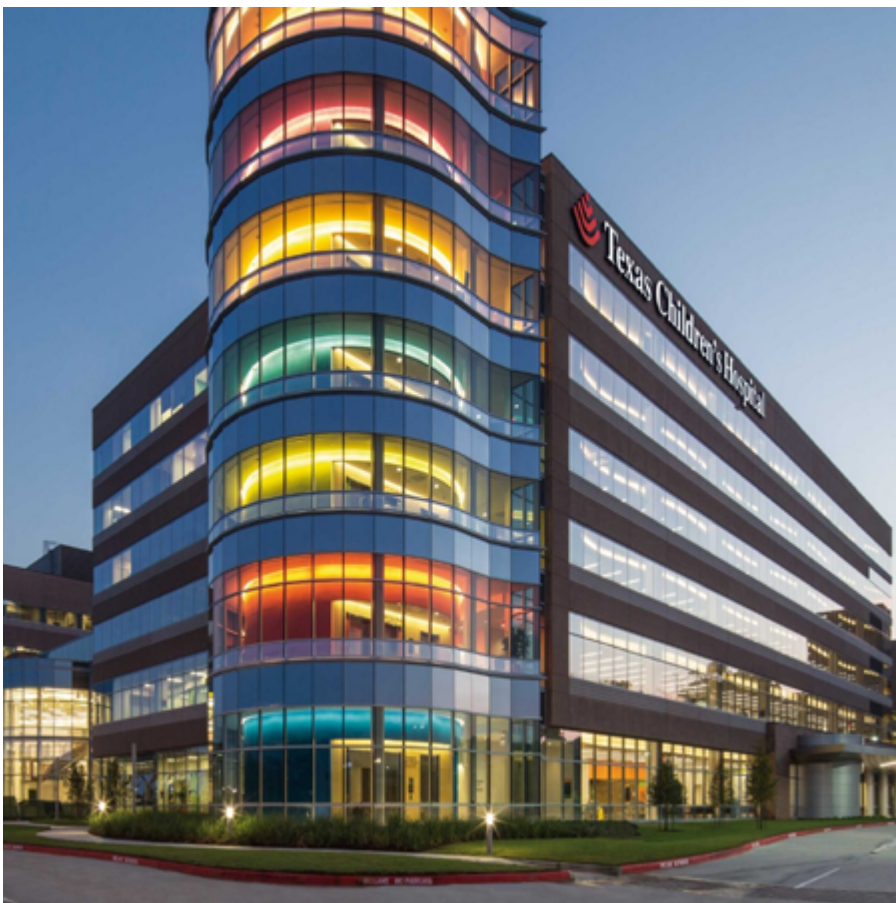
HOSPITALITY



CHILDREN'S HEALTHCARE OF ATLANTA - THE CENTER FOR ADVANCED PEDIATRICS

ATLANTA, GA | 280,000 SQFT

Children’s Healthcare of Atlanta has set a new standard for sustainable healthcare design on its 70-acre North Druid campus, with WorkingBuildings as a key partner in commissioning and sustainability consulting. The campus includes the 260,000-square-foot Center for Advanced Pediatrics (LEED Gold), the Children’s Support Center (LEED Silver), and the soon-to-open Arthur M. Blank Hospital, all designed to prioritize patient well-being and environmental stewardship. Despite challenges such as a complex construction scope, tight timelines, and the COVID-19 pandemic, WorkingBuildings implemented innovative solutions including phased commissioning, early issue identification, and rigorous sustainability measures—from rooftop air-handling systems to heat-island reduction. This collaborative approach streamlined LEED certification, diverted substantial construction waste from landfills, and delivered meaningful water and energy savings, resulting in efficient, future-ready facilities.



TEXAS CHILDREN'S HOSPITAL

HOUSTON, TX

We developed a comprehensive security risk assessment, thoroughly reviewing the present security profile, studying the hospital's readiness for its recently announced enterprise-wide security program. The assessment included review of the current design and security staffing for improving the security department as it grows into the future. We evaluated systems and capabilities at four different facilities based on specific security program aspects, guiding the overall organizational design of the enterprise security program, including enterprise-wide security resource allocation, staffing, and deployment. Reviews of current/future security technology included reviews of weapons detection systems and their efficacy, and included physical and electronic security systems' applications. Our studies also included security training, professional development, security facility orders, workplace violence prevention and response, visitation, and assessment of all high-risk areas.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

SPORTS AND ENTERTAINMENT

Our acoustic and technology designers ensure stadiums and arenas are connected, versatile, and acoustically optimized.

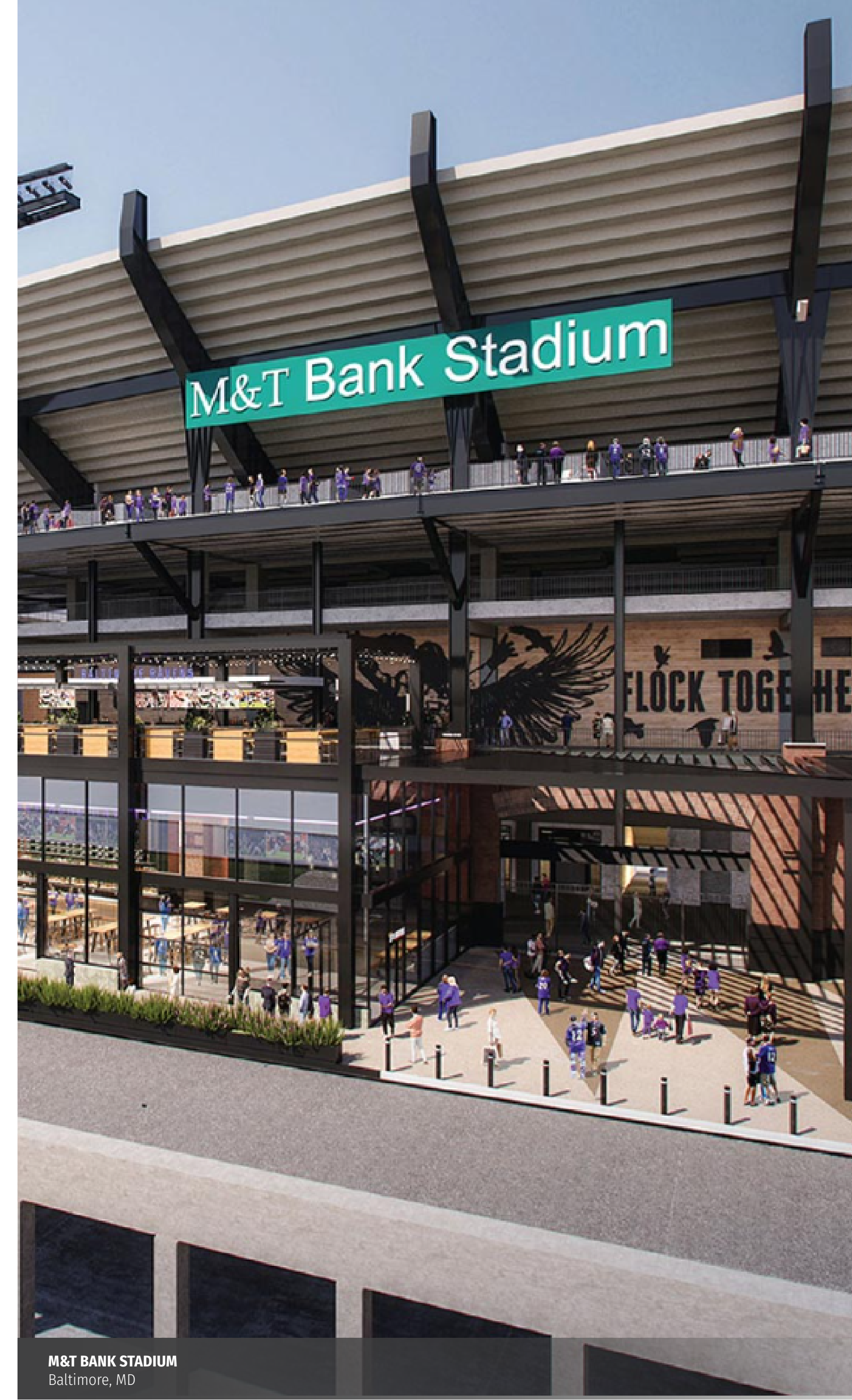
Acoustics for Large-Scale Venues

Large open spaces such as arenas, gyms, and multipurpose centers present unique acoustical challenges, with excessive noise and reverberation often impacting the experience. Our acoustic specialists excel at finding the right balance — enhancing speech intelligibility, controlling reverberation, and delivering powerful yet clear sound. From basketball courts to hockey rinks and tennis facilities, we know how to design environments that energize fans without overwhelming them.

Recreation and Campus Communities

For colleges and universities, sports and recreation facilities are central to building healthy, vibrant campus communities. Our recreation experts design with a focus on wellness and engagement, carefully considering the placement of amenities to promote fitness and social interaction while minimizing disruption to adjacent academic spaces.

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M&T BANK STADIUM
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WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

Technology for Engagement and Safety

We integrate advanced technologies to enhance both fan engagement and safety. Distributed antenna systems and high-density Wi-Fi networks allow fans to stream, post, and share in real time, ensuring continuous connectivity. We design intuitive wayfinding systems and food and beverage solutions to streamline movement and convenience throughout venues. To ensure safety, our highdefinition video surveillance and integrated security technologies give operators the ability to maintain a secure and welcoming environment.

Commissioning Services

Commissioning (CxA) plays a vital role in sports and entertainment venues, where performance, safety, and reliability are paramount. Our commissioning team provides deep subject-matter expertise to validate complex systems, from AV/IT networks and distributed antenna systems to HVAC, electrical, and security infrastructure. We perform root cause analysis of issues, test operational scenarios, and ensure smooth integration when converting to new technologies. This process gives owners confidence that their venues will deliver reliable performance under the demands of live events.

Sustainability and Resilience

Sustainability is now a critical expectation for sports and entertainment facilities. We incorporate LEED® and WELL® principles into venue design, helping owners achieve energy efficiency, reduced environmental impact, and enhanced occupant wellness. From energy-efficient lighting and smart controls to sustainable material selection and acoustical finishes, we align performance with environmental responsibility.

Trinity Consultants delivers acoustics, technology, commissioning, and sustainability solutions that transform sports and entertainment venues into destinations that sound better, work smarter, and keep fans, students, and patrons fully engaged.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

SPORTS AND ENTERTAINMENT PROJECT EXPERIENCE



LITTLE CAESARS ARENA

DETROIT, MI | 885,000 SQFT

Our firm provided IT, AV, and acoustical services for Little Caesars Arena in downtown Detroit, home to the NHL’s Red Wings and NBA’s Pistons. This 20,000-seat multi-purpose venue, with an additional 5,000 in outdoor areas, features a glass-roofed concourse and a “deconstructed” design that connects to surrounding shops and offices, activating the space year-round. We designed a resilient converged IT network supporting systems for POS, security, building management, IPTV, press, teams, and fans, along with a high-density Wi-Fi network and neutral host DAS for seamless connectivity. Our AV team developed immersive experiences including a large LED plaza display and the jewel skin wall for synchronized visual effects across the arena—triggered during events like Red Wings goals. These systems, unified under one infrastructure, extend to other Ilitch-owned facilities, delivering a cohesive and exceptional guest experience.



MADISON SQUARE GARDEN TRANSFORMATION

NEW YORK, NY | 3 MIL SQFT

The complex, multi-phase Madison Square Garden Transformation project included the complete replacement of all core technology infrastructure and systems including broadcast cabling, audiovisual, LAN/WAN, voice/data, physical security, building automation, scoring/timing, scoreboard display, TV display, distributed antenna, wireless, infrastructure and network facilities and systems. All systems throughout the venue are connected via a single converged IP network, delivering significantly more content and functionality than in any other venue. The main goal of the project was to provide infrastructure that would accommodate current needs, but be flexible and robust to accommodate future technologies as they evolve without the need to fully close the arena.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

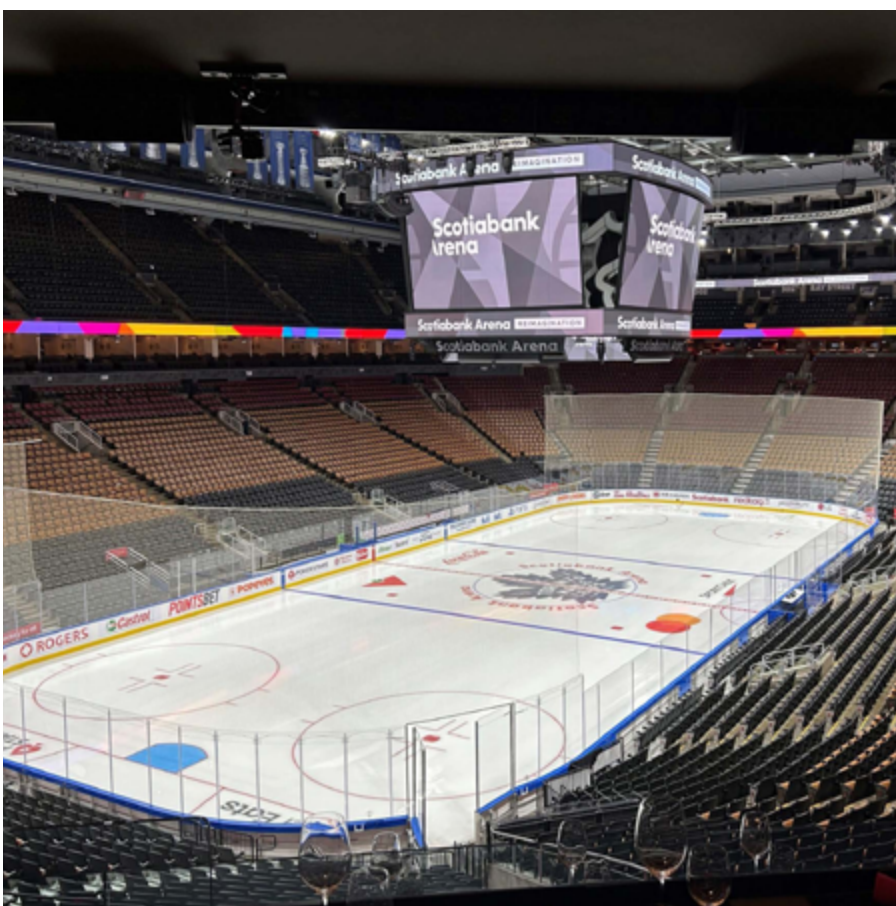
HOSPITALITY



MERCEDES-BENZ STADIUM

ATLANTA, GA | 1.8 MIL SQFT

Mercedes-Benz Stadium in Atlanta, home to the Falcons and Atlanta United, is a 75,000-seat retractable-roof venue that also hosts major sporting, entertainment, and cultural events. WorkingBuildings provided commissioning services to ensure seamless integration of its complex systems, leading development of the owner’s project requirements and design assist efforts. The team commissioned over 1,500 pieces of equipment across mechanical, electrical, lighting, plumbing, fire alarm, and rainwater reclamation systems, managing more than 2,400 checklists and performance tests to verify reliable operation under multiple scenarios.



SCOTIABANK CONVENTION CENTRE

NIAGARA FALLS, ONTARIO | 330,000 SQFT

Scotiabank Arena, formerly the Air Canada Centre, is Canada’s leading sports and entertainment venue and home to the Toronto Maple Leafs and Toronto Raptors. With a capacity of 20,000, it has hosted over 2,600 events and 39 million fans, earning more than 40 industry awards for excellence in security, accessibility, fan experience, and sustainability. Valcoustics provided acoustical consulting for the arena, which features restaurants and retail spaces designed to enhance the live event experience for sports and concertgoers alike.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

MUSEUM, ARTS AND CULTURE

You'll find us at the intersection of art and science.

At Trinity Consultants, we help museums, performing arts centers, and cultural institutions deliver experiences that inspire, educate, and connect with their communities. By integrating acoustics, technology, security, commissioning, and sustainability, we design environments that honor artistic vision while ensuring operational excellence and long-term resilience.

Acoustics, Technology, and Security

Acoustics are central to the cultural experience — from creating clarity in spoken-word programs to balancing reverberation in performance halls and protecting artifacts in galleries. Our team applies advanced design methods, predictive modeling, and on-site testing to manage sound power levels (SPL), transmission loss (TL), and vibration criteria (VC). These approaches reduce noise from mechanical systems, minimize vibration impacts, and deliver quiet, immersive environments for both patrons and staff.

Technology and security are equally vital. We design integrated audiovisual systems to support exhibitions, performances, and digital engagement, while robust network infrastructures ensure flexibility for future innovation. Our security solutions — including IP-based surveillance, access control, and centralized monitoring — safeguard collections, patrons, and staff, meeting institutional standards as well as broader regulatory expectations.

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WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

Sustainability and Community Responsibility

Cultural institutions are increasingly leaders in sustainability, modeling environmental responsibility for their communities. We incorporate LEED® and WELL® strategies into every project, balancing energy efficiency and occupant wellness with acoustical and technological excellence. Energy-efficient lighting, advanced controls, responsible material selection, and optimized system performance reduce environmental impact while enhancing visitor and performer experience.

Trinity Consultants delivers acoustics, technology, and sustainability services for museums, arts, and cultural institutions. By combining technical precision with cultural sensitivity, we help create spaces that are secure, sustainable, and inspiring —cultural landmarks that truly belong to their communities.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

MUSEUM, ARTS AND CULTURE PROJECT EXPERIENCE



PHILADELPHIA MUSEUM OF ART

PHILADELPHIA, PA | 100,000 SQFT

We provided IT and acoustics design for the first major renovation of the Philadelphia Museum of Art since the 1920s, working closely with Gehry Partners on The Core Project. We created an invisible yet robust network within the 100,000-square-foot historic space, carefully integrating technology into century-old marble and limestone finishes. Acoustic solutions balanced intelligibility with preservation, including a room-within-a-room isolation strategy for the new underground auditorium to block transit noise. Our firm also continues to support the museum during events like the Made in America Festival, monitoring vibrations and protecting sensitive artworks—an unusual but vital role in this landmark project.



MOMA EXPANSION

NEW YORK, NY | 115,000 SQFT

Upon entry, visitors encounter the striking Blade Stair, a signature feature linking old and new spaces. We conducted detailed acoustical analyses to determine optimal sound absorption, resulting in floor-to-ceiling wood-paneled walls with micro-perforations that quietly manage sound without compromising aesthetics. At the heart of the new space is the Marie-Josée and Henry Kravis Studio—the first museum gallery dedicated to performance and time-based art. Using virtual simulations, we designed a floating gallery with tilting walls, acoustic banners, and a secondary curtain wall to block city noise, creating a silent, immersive environment that transforms with each installation.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY



BUDDY HOLLY HALL OF PERFORMING ARTS & SCIENCES

LUBBOCK, TX | 124,000 SQFT

Buddy Holly Hall is a mixed-use cultural venue in Lubbock designed to serve Ballet Lubbock, the Lubbock Symphony Orchestra, the local school district, and a Broadway promoter. We provided acoustics, IT, and AV design to support a wide range of programming, from symphonies to amplified musicals. The 2,300-seat main hall features a large stage, adjustable acoustics, and a reconfigurable floor for banquets, while the 375-seat proscenium theatre supports student and community performances with cost-effective materials and flexible acoustics. A 5,000 SF multipurpose space can be used for events or split into two rehearsal rooms. Network-based AV and performance systems were designed to be robust and intuitive, with infrastructure to support touring shows, rental gear, and future upgrades, helping position the hall as a catalyst for downtown revitalization.



CANADIAN MUSEUM OF HISTORY

GATINEAU, QUEBEC | 1MIL SQFT

Originally named the National Museum of Canada, the museum used to share space with both the National Gallery and the Museum of Nature. 1982, it was decided that the Museum of Man would be moved to its own separate facility in Hull. The National Museum of Man became the Canadian Museum of Civilization. In 1989, the museum moved into the new facility. Valcoustics provided complete acoustical design consulting services. These included architectural acoustics, sound isolation and noise control. Specific attention was given to the following spaces: IMAX/OMNIMAX Theatre, Auditorium/Theatre, Grand Hall, Main Mechanical Room, and Exhibit Spaces.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

DATA CENTER

Data center demand is surging, with over \$250 billion in capital outlays planned by major tech firms for 2025–2026 — we know data centers.

At Trinity Consultants, we deliver integrated acoustics, technology, security, and commissioning services for mission-critical data center environments. From hyperscale and colocation to enterprise and edge facilities, our work ensures that every system operates with reliability, resilience, and efficiency — supporting the uptime, security, and scalability that modern digital infrastructure demands.

Acoustics, Technology, and Security

Advanced acoustical design is essential in protecting sensitive IT equipment and ensuring occupant comfort. We apply predictive modeling, on-site measurements, and internationally recognized standards (ANSI/ASA and ISO) to address sound power levels (SPL), transmission loss (TL), and vibration criteria (VC). By mitigating noise and vibration from high-capacity cooling equipment, standby generators, and MEP systems, we deliver quiet, stable operating environments that reduce risk and protect both infrastructure and adjacent spaces.

Our technology and security practice integrates physical and digital protection to safeguard uptime, data integrity, and resilience. Structured cabling systems, robust network infrastructure, and audiovisual (AV) solutions are designed to align with Tier-level expectations and Uptime Institute standards. Comprehensive security strategies — including perimeter hardening, IP-based CCTV, access control, and security operations centers — reinforce zero-trust policies while supporting compliance with PCI DSS, ISO/IEC 27001, and other regulatory requirements.



WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

Commissioning Services

Commissioning (CxA) is critical to ensuring mission-critical systems function as designed the moment they go live. Our team provides a comprehensive, phased approach — from design reviews through integrated systems testing (IST) and turnover — to validate performance, identify single points of failure, and mitigate risks.

We rigorously test mechanical, electrical, and plumbing (MEP) systems, uninterruptible power supply (UPS), backup generators, building automation systems (BAS), and building management systems (BMS). By confirming redundancy strategies (N, N+1, 2N) and optimizing cooling loops to reduce chiller use, we enhance both reliability and energy efficiency, improving Power Usage Effectiveness (PUE).

Our methodology includes detailed commissioning reports, O&M documentation, wiring diagrams, and operator training — equipping owners with the knowledge and tools to sustain long-term reliability, efficiency, and scalability. From Level 1 through Level 5 commissioning, our focus on QA/QC, operational continuity, and scalability ensures that data centers are fully functional, resilient, and future-ready.

Sustainability and Efficiency

We recognize the increasing importance of energy efficiency and sustainability in data center operations. Our strategies prioritize system optimization to minimize energy consumption and reduce mean time to repair (MTTR). By integrating sustainable practices and innovative cooling strategies, we help clients meet environmental goals without compromising performance, supporting both compliance targets and corporate ESG initiatives.

Trinity Consultants is a trusted partner in delivering Tier-certified, resilient, and sustainable data centers. By integrating acoustics, technology, security, commissioning, and sustainability, we provide solutions that reduce risk, optimize performance, and future-proof critical infrastructure.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

DATA CENTER PROJECT EXPERIENCE

All photos are stock images



CONFIDENTIAL CAMPUS & DATA CENTER

NEW YORK, NY | 1 MIL+ SQFT

We provided space planning, MEP coordination, infrastructure design, and construction administration for two large data halls housing over 420 high- and medium-density cabinets (10–16 KW) to support mission-critical broadcast, streaming, and communications for a confidential client. The complex scope included full 3D pathways and space coordination, IT infrastructure, hot aisle containment, multi-tier ladder racks, high-capacity fiber trunking, splicing, distribution, and local UTP cabling. Beyond delivery, we continue to provide IT, AV, security, and acoustical consulting for the client’s downtown NYC campus consolidation, shaping the technology vision and strategy to unify diverse business entities and integrate their communications on a common platform. Our work spans 650,000 SF of workplace, 250,000 SF of broadcast, and 140,000 SF of amenity space, with the goal of enabling seamless collaboration and an ‘always on’ operational culture.



CONFIDENTIAL HYPERSCALE DATA CENTER

400 MW+

Trinity participated in the program management, preconstruction and construction of multiple “Mission Critical” data centers totaling more than 100,000 SF within a campus setting. Our designs incorporated state-of-the-art energy efficient strategies. The master plan included site design & development; site utilities; critical infrastructure; utility substations; central utility plants; large scale generation plants; critical environment construction; office & support spaces; high, medium, & low voltage distribution systems & associated equipment; combined air & water side mechanical distribution systems, & multiple redundancy levels. Trinity has provided commissioning services for this client at four separate campuses, assisted in delivering over 400MW of data center capacity. We have been involved in all aspects of QC and commissioning on these projects from Level 1 to Level 5.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY



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COMCAST TECHNOLOGY & DATA CENTER

PHILADELPHIA, PA | 10MW

To meet Comcast and NBC’s live broadcasting needs, we provided space planning, MEP design, and construction administration for two redundant data centers within the headquarters, accommodating over 500 medium- and high-density cabinets (10–15 KW each). Our work included cooling systems, high-capacity spliced fiber, carrier entrances, and conduit connections through underground tunnels to link with Comcast’s urban campus and other data centers, along with tethered equipment rooms for seamless integration. For the Comcast Technology Center—a landmark project in Philadelphia—we also served as technology consultants, delivering communication technology and acoustic design solutions that unified systems and enhanced stakeholder accessibility.

“SWEET TEA” FACILITY, – NATIONAL SECURITY AGENCY

10 MW

WorkingBuildings provided electrical and mechanical commissioning for this data center facility. This (Tier III designed) data center was supplied by multiple UPS plants, multiple closed transition unit substations, and medium voltage (MV) generator paralleling gear. Static switches enhanced the redundancy throughout the data center at both the UPS and PDU level. Cooling for the data center was provided by two redundant chiller plants to supply chilled water to CRAC units spaced throughout the data center areas.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

GOVERNMENT

Creating workable ecosystems that facilitate collaboration in both mission-critical and day-to-day government facilities.

At Trinity Consultants, we understand the unique challenges and responsibilities inherent in designing for government facilities. From federal courthouses to military installations and civic institutions, our team provides integrated acoustics, technology, commissioning, and sustainability services that deliver secure, functional, and future-ready environments.

Acoustics and Secure Communication

End-to-end privacy begins with acoustics and extends to verifiably secure communication infrastructure. Our expertise spans decades of collaboration with government clients — including the Federal Court System, the U.S. Capitol, military facilities, and a range of federal and local agencies. We are deeply familiar with GSA building standards, particularly as they relate to privacy, sound isolation, and mechanical system acoustics. We have earned a reputation for designing acoustical and technology solutions that meet the complex requirements of 21st-century courthouses. Our portfolio includes four of the nation's newest federal courthouses in Boston, New York, White Plains, and Minneapolis, ranging from 150,000 to nearly 800,000 square feet. Earlier, our team helped revise the U.S. Courts Design Guide, the definitive standard for courthouse design, by updating its acoustical criteria. Internationally, we have prepared acoustical guidelines for the Province of Ontario, the Federal Court of Canada, and the Province of British Columbia — creating frameworks that ensure high-quality communication, privacy, and functionality across courtrooms, jury spaces, and public areas.

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CHARLES R. JONAS COURTHOUSE
Charlotte, NC

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

Technology and Security Integration

Government facilities demand both robust functionality and uncompromising security. Our designs integrate audiovisual systems, communication networks, and security platforms to safeguard sensitive information while supporting accessibility and operational efficiency. We incorporate perimeter hardening, IP-based surveillance, access control, and secure communication systems that align with agency standards and regulatory compliance requirements.

Commissioning Services

Commissioning (CxA) is critical to validating system performance in mission-critical government environments. From Level 1 through Level 5 commissioning, we ensure that systems are functional, reliable, and resilient the moment they go live. We rigorously test mechanical, electrical, and communication systems, including generator-backed power, to confirm seamless recovery in the event of outages. Our approach emphasizes maintainability, serviceability, and long-term operability, with detailed documentation, O&M manuals, and owner training provided to support ongoing performance.

Sustainability and Long-Term Value

Government facilities increasingly serve as examples of environmental leadership. Our team integrates LEED® and WELL® strategies into courthouse and civic designs, balancing privacy and acoustical excellence with energy efficiency and sustainability. Through optimized building systems, efficient power and HVAC solutions, and sustainable material selection, we help agencies meet their environmental and operational goals while enhancing occupant comfort and wellness.

Trinity Consultants delivers acoustics, technology, commissioning, and sustainability solutions for government projects — from courthouses and civic institutions to secure federal and military facilities. By combining technical precision with regulatory expertise, we create environments that are secure, resilient, sustainable, and built to serve communities for decades to come.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

GOVERNMENT PROJECT EXPERIENCE



NEW TORONTO COURTHOUSE

TORONTO, ONTARIO | 198,000 SQFT

We provided comprehensive acoustical consulting for Toronto's new 19-storey courthouse, focusing on sound isolation, noise and vibration control, interior room acoustics, and environmental acoustics to meet the facility's critical performance needs. Our services included designing space boundaries to achieve required STC ratings, controlling sound transfer between spaces, and optimizing room volume, shape, and finishes to manage reflections, reverberation, and speech intelligibility, ensuring a high-quality acoustic environment for court proceedings.



JOHN SEVIER OFFICE BUILDING

NASHVILLE, TN | 124,000 SQFT

The John Sevier Office Building, a historic 1940 structure adjacent to the Tennessee State Capitol, underwent its second major renovation, addressing both interior and exterior upgrades. The project included improvements to the building envelope, mechanical, electrical, plumbing, and fire protection systems, along with full interior renovations featuring restored historic lighting fixtures and new LED lighting. WorkingBuildings provided comprehensive commissioning services across all project phases— design, construction, and warranty—for the building envelope and core systems, ensuring performance, reliability, and preservation of the building's historic character.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY



CONFIDENTIAL GOVERNMENT CAMPUS

MARYLAND

Our firm was responsible for the design and construction administration of the systems infrastructure to support building-wide audiovisual components including, digital signage, war rooms, secure and unsecure conferencing areas, command and control and critical event spaces. Special attention was given to structural elements for enormous video walls, signal type and pathway separation, as well as power and heat load calculations. In addition to the work inside the base, we're also consulting at the perimeter as well with Security, IT, AV and acoustical design for the new Cryptological Museum Building. This building provides for a mix of public facing and private meeting areas.



CONFIDENTIAL TRAINING FACILITY

DC AREA

Our team provided acoustic consulting for a 200,000 SF confidential government training facility. Key spaces included classrooms for 400 students and 200 instructors, where sound isolation was critical to ensure privacy and meet security standards. We addressed noise control across operable partitions, STC glass walls, and translation booths in large multipurpose rooms. Collaboration areas like cafés and break rooms were also acoustically optimized. Despite challenges from open ceilings, we ensured proper sound attenuation in transfer ducts while maintaining acoustic performance.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

HOSPITALITY

With sleep being a priority at hotels, we help achieve five-star status.

At Trinity Consultants, we know that in the hospitality sector, acoustics, technology, and sustainability play a central role in shaping guest experiences — from business travelers seeking productivity to leisure guests looking for rest and rejuvenation. Having partnered with more than 50 hotel operators worldwide, we have collaborated with many of the world’s most renowned architects on projects ranging from boutique hotels to large international destinations. Our approach delivers solutions that respect the architect’s vision, align with the hotel’s class and brand identity, and support operator standards.

Seamless Audiovisual Integration

Audiovisual applications in hotels are diverse and critical to functionality. From digital wayfinding and background music systems in lobbies to advanced AV setups in conference centers, ballrooms, and breakout rooms, we design systems that are both intuitive and invisible to the design aesthetic. Equipment is carefully specified for portability, ease of use, and adaptability, allowing hotel teams to seamlessly support a wide range of guest needs and events. The result is robust and reliable audiovisual infrastructure that elevates both guest satisfaction and operator efficiency.

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ACE HOTEL
Brooklyn, NY

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

Acoustical Design for Comfort and Ambiance

Acoustics are essential to delivering comfort, privacy, and atmosphere throughout a hotel. In guestrooms, our designs aim to replicate the sense of tranquility guests expect at home. We minimize noise transmission between rooms, mitigate external disturbances such as traffic or flight paths, and control vibration and sound from elevators and mechanical systems. In public areas, acoustics are equally important in creating ambiance. Whether in restaurants, bars, casinos, fitness centers, or reception spaces, we design sound environments that enhance enjoyment and comfort. In ballrooms, meeting rooms, and other large venues, our acoustic and technology expertise ensures clarity, balance, and flexibility — critical to hosting events of any scale.

Sustainability and Wellness

Today’s hospitality environments are expected to deliver not only comfort but also responsibility. We integrate sustainability strategies into every project, aligning with LEED® and WELL® standards to reduce environmental impact while enhancing guest wellness. Our team designs energy-efficient audiovisual systems, specifies responsible materials, and integrates advanced building controls that optimize lighting, shading, and HVAC performance. By combining acoustics and technology with sustainable design practices, we help hotels meet their ESG goals while enriching the guest experience.

Trinity Consultants helps hotels create quiet, connected, and sustainable environments that leave a lasting impression. By uniting acoustics, technology, and sustainability, we deliver spaces that elevate guest comfort, operator efficiency, and long-term value.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

HOSPITALITY PROJECT EXPERIENCE



CASINO WOODBINE EXPANSION

TORONTO, ONTARIO | 807,000 SQFT

The project involved an expansion/redevelopment of Casino Woodbine to include a 4200-seat performance venue, casino, 400-room hotel with swimming pool, 500-room hotel (to be built later) and 6-level parking garage. Valcoustics provided acoustical design services through the design and construction phases, including input into interior room acoustics (to control reverberation, improve speech intelligibility, etc.), sound isolation and mechanical noise and vibration control.



KULA BELGRADE

BELGRADE, SERBIA | 511,286 SQFT

Soaring at 168 meters high, Kula Belgrade is a 40-story tower and is the new centerpiece of the Belgrade Waterfront. It combines residential, commercial, hotel and entertainment programs that create a new urban space for the surrounding community. Our team worked closely with the client to design a truly flexible technology infrastructure that allows any space, whether residential, hotel or presidential suite, connections to a multitude of available technology services. The IT Infrastructure provides Voice, Data, and Cable TV service, along with superior Wi-Fi coverage and capacity for common areas, hotel and condominium units. Audiovisual systems support state-of-the-art collaboration, meeting, guest and residential experiences.

WHO WE ARE

EXPERIENCE

CORE & SHELL

COMMERCIAL

EDUCATION

RESIDENTIAL

AIRPORTS &
TRAVEL HUBS

LIFE SCIENCE

HEALTHCARE

SPORTS &
ENTERTAINMENT

MUSEUM, ARTS
& CULTURE

DATA CENTER

GOVERNMENT

HOSPITALITY

HOSPITALITY PROJECT EXPERIENCE



RESORTS WORLD

CATSKILLS, NY | 1.6 MIL SQFT

We provided comprehensive acoustic consulting for the M Centre, ensuring minimal background noise, strong speech privacy, and effective noise isolation between guest rooms, meeting areas, the pool, and the Salon Privés—critical in a casino resort that also functions as an "indoor water park." Our design maintained acoustic integrity across all spaces, including floor slabs and partitions to control both airborne and impact noise. Across four major entertainment venues—Empire Lounge, Sportsbook 360, Doubletop Bar & Grill, and the Epicenter—we created acoustic environments that balance sound containment and energy, drawing guests in while showcasing performers at their best. Our technology team designed and integrated AV systems throughout the hotel, gaming areas, and amenities, delivering a seamless guest experience with custom reservation systems, wayfinding, digital signage, and in-room technology.



RITZ CARLTON HOTEL

CAIRO, EGYPT | 689,000 SQFT

We provided a full range of acoustical engineering services for the conversion of The Nile Hilton Hotel into The Nile Ritz- Carlton Hotel. The conversion included an addition of a conference centre, hotel, consisting of 12-storeys, banquet facilities, including meeting rooms, restaurants, casino, bar, retail, business centre, cabanas, pool side dining, spa and fitness centre.



We have experience performing expert consulting services all across the U.S. and Canada

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