



CREATIVE IDEAS. PRECISELY DELIVERED.



Company Overview

FIVE DECADES OF EXPERIENCE...AND COUNTING.

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Expertise

- ◇ **BRPH does more than just design buildings or facilities. We solve engineering and architectural challenges.**

INNOVATION MEETS INSPIRATION.

BRPH is recognized as a leader in planning, design, engineering, and construction for a wide range of markets, including aviation, aerospace, federal government, commercial/industrial and educational. With hundreds of years of collective experience and thousands of projects to our credit, we have become

recognized for our ability to design highly specialized one-of-a-kind facilities and formulate new and innovative design solutions to meet the needs of our clients. From defining the project to delivering on the project vision, our Launch Sequence ensures a streamlined and well-documented process.



Services & Markets

Whether you're looking for a single, specialized service or an integrated, holistic solution, BRPH is the intelligent and experienced choice.

SERVICES

Alternative Delivery
Architecture
Building Information Modeling
Cost Estimating
Design Services
Economic Development
Interior Design

Mechanical, Electrical, Plumbing
Project Management
Program Management
Structural Design
Sustainability
Technology

MARKETS

Commercial
Aerospace
Education
Entertainment
Government Services
Manufacturing (Aviation)
Manufacturing (Industrial)



Integrated & Design Services

- ◇ **Because every client is unique, our market-based teams engage clients as partners, delivering customized services for each project. Collaboration leads to solutions that support facility goals to enhance and strengthen the business operations of clients in all markets.**

INTEGRATED SERVICES

BRPH applies an integrated team approach to each of our projects, a method that brings different disciplines together and optimizes stakeholder collaboration at all levels. With the advantage of having all design and construction disciplines in-house, BRPH projects are fully integrated. Real-time reviews streamline the process and the client as team member adds an important voice in the decision-making process every step of the way.

DESIGN SERVICES

BRPH provides comprehensive architectural, engineering, and facilities services for a wide range of client types. Our in-house expertise includes:

- Architecture
- Interior Design
- Space Planning
- Graphic Design/Simulation

- Civil/Site Engineering
- Structural Engineering
- MEP Engineering
- Cost Estimating
- Project Scheduling

Whether a client requires our completely integrated services or a single design service, we work collaboratively with clients and end-users to ensure a comfortable and functional environment designed to fulfill their practical needs and respect their budget; all delivered with the high standard of service our clients have learned to expect when working with BRPH.

Manufacturing (Aviation)

◆ The five world's largest aviation companies choose BRPH.

For five decades, we've helped shape the sites and facilities where the next generation of commercial and business aircraft are being imagined and produced. In the past decade alone, we have designed over \$3 billion worth of aviation manufacturing facilities.

Our team is designing world-class spaces that spotlight the ingenuity of today's aviation industry. From 10,000 square foot operation centers to 1.2 million square foot assembly buildings, we are experts in complex aircraft manufacturing plants for nearly all of the world's largest aviation companies.



BOEING 787 FINAL ASSEMBLY BUILDING NORTH CHARLESTON, SOUTH CAROLINA

The LEED Gold facility is five stories tall, 614' wide and 1,030' long — about the size of 12 football fields (over 1.2 million square feet) — and has an intricate system of thin panel photovoltaics placed across much of the roof. Office and shop functions are located on five mezzanine levels running lengthwise on either side of the production core with support functions strategically located at key intervals along the ribbon.

EMBRAER PHENOM MANUFACTURING & DELIVERY CENTER

MELBOURNE, FLORIDA

The manufacturing and assembly facility combines aircraft assembly operations with administrative support. At full capacity, the facility will permit the assembly of eight Phenom 100 or 300 aircraft per month. The area is designed as a high-volume, long-span structure with under hung cranes to permit the greatest production flexibility possible. The structure is served by a system of in-floor utility distribution boxes to bring power and compressed air to various assembly cells on the open floor.



GULFSTREAM AEROSPACE G650 PRODUCTION FACILITY

SAVANNAH, GEORGIA

A more efficient production line. That was the challenge presented by Gulfstream Aerospace for their new 650 Production Facility. Our solution? We developed and designed a network of over 5,000 linear feet of utility trenches and smaller service connection points providing access to the required utilities that are the lifeline of the production process.

Global Experience

- ◇ We provide service wherever our clients grow their business. Our team has completed projects on more than five continents and across 16 countries for international and U.S.-based companies. We are agile and flexible, which allows us to serve our clients in every corner of the globe.

U.S. FACILITIES

- Triumph TARO II, *Red Oak, TX*
- EFACEC (Portugal), *Rincon, GA*
- Ytong (Sweden), *Haines City, FL*
- Embraer (Brazil), *Melbourne, FL*
- Norsk Hydro ASA (Norway) Aluminum, *Rockledge, FL*
- Opto Mechanik, Inc. (Germany) Manufacturing Facility, *Melbourne, FL*
- Ciba Geigy (Germany) Contact Lens Manufacturing, *Tampa, FL*
- Gambro Healthcare (Sweden), *Daytona Beach, FL*
- JDS Uniphase (Canada), *Melbourne, FL*

INTERNATIONAL FACILITIES

- Exchange Facility Renovations, *Camp Ederle, Vicenza Italy*
- Harris International Communication Facility, *Kaduna, Nigeria*
- Lockheed C-130J Training Facility, Maintenance Hangar and Fuel Cell/Wash Bay Hangar, *India*
- Antilles Elementary School, *Fort Buchanan, Puerto Rico*
- Naval Station, *Guantanamo Bay, Cuba*
- Range Technical Services, *Ascension Island, Antigua Air Station*
- Iraq Embassy Branch Office, *Erbil, Iraq*
- Aviano Air Base Main Exchange and Commissary, *Aviano Air Base, Italy*
- General Dynamics SATCOM Misawa Antenna Field, *Misawa, Japan*
- Kathrein-Werke (Germany), *Tlaxcala, Mexico*
- Bombardier Master Planning and Design, *Toronto, Canada*
- P109 Aircraft Maintenance Hangar, *Guam*



KATHREIN-WERKE MANUFACTURING PLANT

TLAXCALA, MEXICO

The international firm engaged BRPH early in the decision making process to provide due diligence in vetting the overall feasibility of multiple locations across North America. After researching site considerations, local workforce programs, education capacities of local institutions and overall business climate analysis, we helped the company build and prove the case to their Board of Directors that the Tlaxcala site was the right choice for their new facility. Our team also provided planning, design and construction services for the entire process as well as tooling assistance.

Aerospace

- ◆ **Through the changes, chances and challenges that have shaped the last fifty years of space exploration, BRPH has been there.**

Through every phase of manned launch, we've served as a trusted adviser to spaceport leadership from coast to coast. We've designed and/or planned facilities on every launch pad in the United States.

From Kennedy to Wallops, Kodiak to Vandenberg, and everywhere in between, we're supporting the next fleet of commercial spacecraft destined for other worlds.



COMMERCIAL CARGO AND CREW PROCESSING FACILITY (C3PF)

KENNEDY SPACE CENTER, FLORIDA

As the Shuttle program came to a close over the past few years, and after a series of new plans formulated to focus on the commercial realm of space access, our aerospace team has transformed the former Orbiter Processing Facility 3 (OPF-3) into the new Crew & Cargo Processing Facility (C3PF). The OPF-3 was formerly a central part of helping to get the Shuttle off the ground. It's where the Shuttle main engine was processed before lift-off for the past thirty years. Built in 1964, this fifty-year old facility was prime for a new mission.

NASA OPERATIONS AND CHECKOUT

KENNEDY SPACE CENTER, FLORIDA

The O&C Building will now be used to complete final assembly and testing of the new Orion crew capsule, NASA's next-generation human spacecraft. Modifications necessary to prepare it for the Orion program included removing all existing systems and removing architectural components including coatings. The building was renovated by installing utilities such as power, nitrogen, helium, housekeeping vacuum and compressed air to support nine new Orion specific workstations.





Commercial

- ◆ **When Fortune 500 companies seek to enhance their corporate headquarters or consolidate their facility portfolio, BRPH is there to take them all the way to the finish line.**

Presenting designs that push the envelope toward the facility of the future is an area we have perfected through decades of Class-A facility space development. Our corporate clients stay at the head of their industry through new product development and speed to

market. We stay at the top of ours by delivering design elements never seen before, using new methods to realize budgetary savings, and making the connection between industry trends and facility longevity.

HARRIS TECHNOLOGY CENTER

PALM BAY, FLORIDA

Through options and analysis, a curvilinear glass design emerged which included over 7,000 glass window panels. The need for a large area plan was mitigated by a double wing design that in turn created a gateway onto the site. When this design was presented to Harris they said it was like Pi, π . This symbolic connection would tie the building to its engineering legacy and forever remind the users of its purpose. The building design engages the campus, encourages collaboration, evolves the culture and advances innovation.



KEYSIGHT TECHNOLOGIES CORPORATE CAMPUS UPGRADES

COLORADO SPRINGS, COLORADO

Over the span of four years, we brought Keysight Technologies through a comprehensive renovation program for their Colorado Springs, Colorado campus. Our team worked with Keysight during a rigorous programming effort and developed a five-year implementation plan. The company's goal was to embrace the "Generation Y" workspace concept which incorporates flexible meeting spaces and seating areas to encourage employees to collaborate as well as attract a younger demographic.

Education

- ◇ **Imagine a school where students are on the forefront of cutting edge technology and learn together in innovative learning spaces.**

It's here and it's now and BRPH is at the forefront of this shift toward the integration of technical and industry training within educational facilities from K-12 to higher education. At the same time, the needs of school facilities are rapidly changing as safety and crime prevention strategies have risen to the forefront in an ever changing world. Engagement with our education group means innovative designs, cost-effective solutions and an extension of your facility planning team.



EASTERN FLORIDA STATE COLLEGE CAMPUS MASTER PLAN

MELBOURNE, FLORIDA

Growing from a community college to a state college means increased enrollment, new program offerings, and a greater impact on existing facilities. BRPH developed a master plan for Eastern Florida State College's Melbourne Campus. The goal was to create a comprehensive plan which accommodates the planned growth of sports, education and housing programs.

CHATTAHOOCHEE TECHNICAL COLLEGE

CANTON, GEORGIA

Located on a 25-acre site in Canton, Georgia, the newly established Canton Campus for Chattahoochee Technical College melds modern and technically centered design with traditional North Georgia/Adirondack elements. The Canton campus is the eighth for the College and the newly built academic facility establishes the architectural style for future campus facilities.



LAKE NONA MIDDLE SCHOOL

ORLANDO, FLORIDA

Lake Nona Middle School accommodates 1,257 student stations distributed among three grade-level "houses," one per floor. Each floor contains a satellite guidance/administrative space for dispersed supervision. The design for the school conforms with the Florida Green Building Coalition design standards. The school includes 27 classrooms, 6 skills labs, 9 science labs, resource rooms, art, music, vocal and band, and 4 vocational labs. The location of the media center on the second floor provides central access for the students.

Entertainment

- ◇ **Think of something so unique, so extraordinary, something never tried anywhere before in the world.**

While others may stop there, this is where we thrive. Suspending an 82-ton Space Shuttle in mid-air. Piecing together a 110-ft. tall mythical bronze statue. Creating thrill rides that transport riders to another reality.

Our body of work is more 'engineering marvel' and less 'just another attraction'.



SHUTTLE LAUNCH SIMULATOR

KENNEDY SPACE CENTER, FLORIDA

Unlike amusement park simulators, this experience has "the real stuff". It was designed with input from astronauts who have actually flown on the shuttle. The simulated launch experience allows visitors a once-in-a-lifetime opportunity to ride the Space Shuttle into orbit. For the next five minutes, the pod's 44 passengers see, feel and live the trip to 17,500 mph. As the shuttle bay doors open, what follows is a breathtaking view of Earth seldom seen in the first person.

UNIVERSAL TRANSFORMERS: THE RIDE-3D

ORLANDO, FLORIDA

The most surprising part of the Transformer 3D Ride wasn't the impressive technology used in it, or even its really unique marketing, but the time it took to build it. In less than a year, including fast track design, this project went from just a rumor to an open for business attraction. The aggressive timeframe was noted by park officials as the fastest a project as complex as this has ever been built at Universal.



Federal

- ◇ **Over the years, we've partnered with a number of federal agencies across the globe including NAVFAC, USACE, and MWR.**

With hundreds of federal facilities designed by our team, we offer an innate understanding of the complexities and nuances that are part of all federal and municipal projects.

But there are more important things than knowing the difference between an IDIQ and a MATOC. For us, that means designing buildings that will protect, honor, and serve a generation of heroes serving for us.



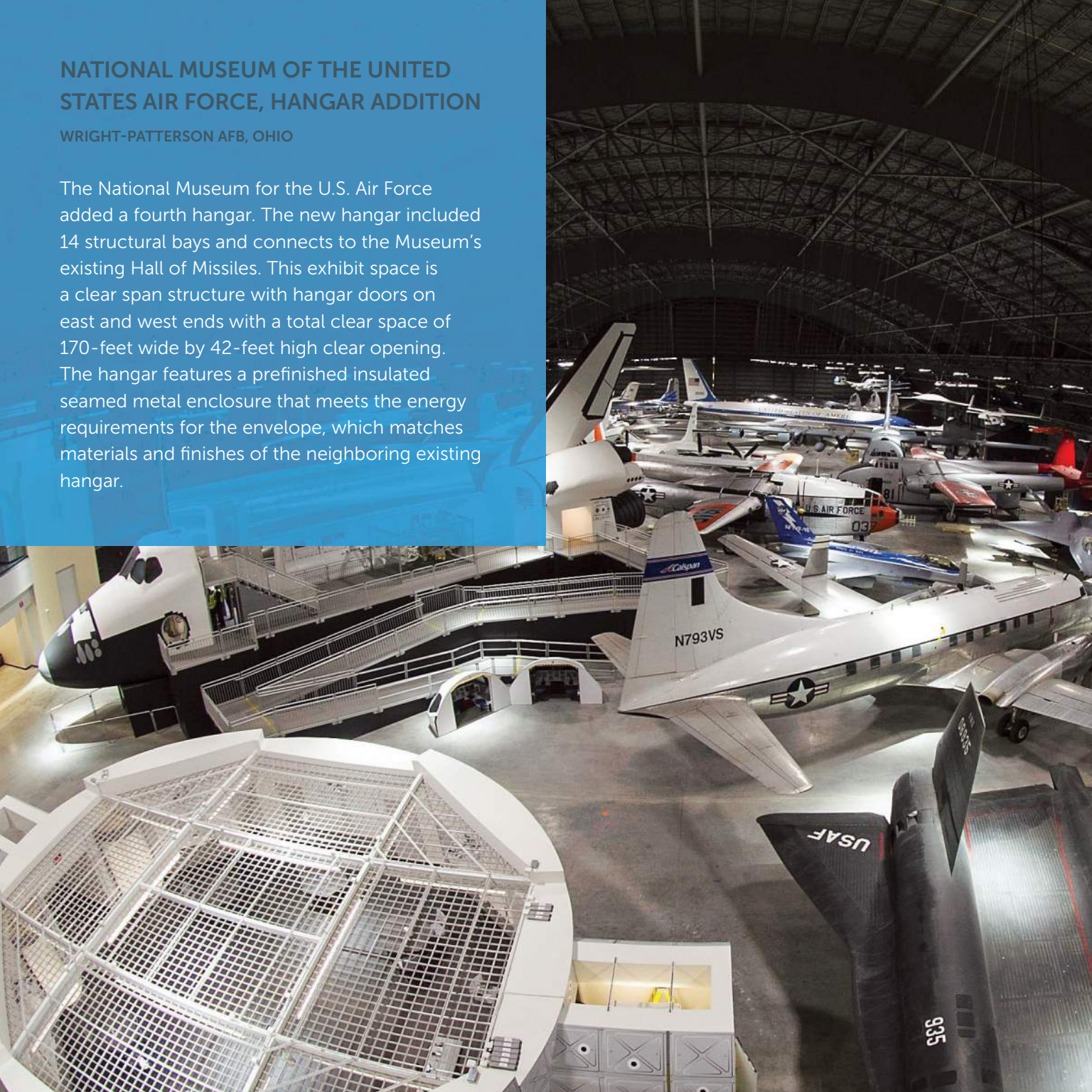
SOUTHERN COMMAND HEADQUARTERS MIAMI-CORAL, FLORIDA

Some of the most important military planning occurs in South Florida at Southern Command Headquarters in Miami-Doral, Florida. In need of a new multi-facility campus, our team designed a Services facility and a Conference Center of the Americas building. The design focus for the SOUTHCOM campus was to allow the many entities of Southern Command to execute their missions in a secure, flexible and interconnected environment that is both productive and efficient while being a zoned campus of segregated use.

NATIONAL MUSEUM OF THE UNITED STATES AIR FORCE, HANGAR ADDITION

WRIGHT-PATTERSON AFB, OHIO

The National Museum for the U.S. Air Force added a fourth hangar. The new hangar included 14 structural bays and connects to the Museum's existing Hall of Missiles. This exhibit space is a clear span structure with hangar doors on east and west ends with a total clear space of 170-feet wide by 42-feet high clear opening. The hangar features a prefinished insulated seamed metal enclosure that meets the energy requirements for the envelope, which matches materials and finishes of the neighboring existing hangar.





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CORPORATE HEADQUARTERS

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