The Brigham Building for the Future will bring 675,000 square feet of translational research and clinical space to Brigham and Women’s Hospital.

With occupancy planned for fall 2016, the 11-story Brigham Building for the Future will house eight floors of research laboratories, two floors of clinics, a state-of-the-art imaging facility, a conference and teaching center, and a 400-car garage, along with associated site improvements. It connects to the existing hospital campus via the “Pike,” a quarter-mile-long pedestrian circulation system, which the new building now anchors.

Designed to achieve LEED Gold certification, the Building for the Future includes an innovative façade and massing that bring much-needed daylight into the building.

The new building is designed to foster translational medicine—bringing discoveries from the laboratory bench to patients—to solve neurologic, orthopedic, and rheumatologic puzzles. Flexible clinic plans maximize collaboration between disciplines, providing the highest quality, “one-stop” multidisciplinary care for patients with complex conditions.

Components
Research laboratories, infusion suite, imaging, clinics, conference center, faculty offices, 400-car parking garage

NBBJ Services
Full architectural design, interior design, medical planning, lighting

Size
Total size: 675,000 GSF / 383,000 NSF
Floors: 12 above grade
Parking spaces: 400

Schedule
Project start date: 1/2012
Construction start date: 6/2013
Occupancy: Fall 2016

Research Spaces
- Advanced imaging floor includes one CT, three 3T MRIs, one 1.5T MRI, one 7T MRI
- 8 floors of light-filled labs
- Clinical research center

Staff and Public Amenities
- Lobby/reception area
- A two-story, light-filled atrium/cafe that completes the Pike corridor that connects all of BWH’s buildings
- A rooftop garden that opens from the conference center, where investigators can formally meet to share discoveries. The flexible space accommodates 100 people and can be divided into smaller rooms
Clinical Spaces

- Specialty clinics: neurosciences, orthopedics and associated imaging, rheumatology, centralized phlebotomy, an infusion suite, neurological testing and specialty imaging (MRI, CT, fluoroscopy and x-ray)
- 3 clinical floors dedicated to outpatient visits
- 8 floors of laboratory space for translational science
- 1 floor dedicated to advanced imaging capabilities, 5 state-of-the-art MRIs + 1 CT
- An infusion suite for patients with a wide range of non-oncology treatments
- Comprehensive neurosciences clinic and musculoskeletal programs provide “one-stop shopping” for patients with clinics, testing, clinical trials, infusion, phlebotomy and imaging in the building
- Exam rooms are standard throughout the building to allow flexibility of use among neighboring clinics
- Gracious exam room waiting areas with natural light
- Artwork that celebrates the advancements in research in neurological and musculoskeletal disease

Sustainability

- Tracking LEED Gold certification: green design, construction and maintenance solutions utilized for efficiency and sustainability
- Cogeneration plant provides power and steam to the building
- 40,000 gallon cistern captures stormwater for reuse in the mechanical systems
- 400 parking spaces that include dedicated spots for electric vehicles and low-emission vehicles
- Garage includes a bicycle storage room that accommodates 110 bicycles
- Innovative facade shading devices, strategic massing and energy-efficient glass bring natural light deep into the building while reducing glare and cooling costs
- Extensive green roofs and white roofs insulate the building from heat island effect as well as mitigate stormwater runoff
- Chilled beams reduce energy needs by 20%
- All interior finishes have low VOC levels and are renewable

Construction

- 1,200,000 feet of telecom data cable installed
- 130,000 cubic yards of soil excavated
- 63,000 total man days worked in a 24-month period
- 27,000 yards of concrete poured for foundations and footings
- 5,150 steel beams and columns erected for the structure
- 2,800 cement mixer truck trips to pour the concrete for the foundations
- 2,250 panels of glass and aluminum
- 1,742 tons of steel rebar used for strengthening the concrete
- 400 peak people working on site during construction
- 4.0 megawatts of power from the new gas-powered reciprocating generator

Project Delivery

- Utilized Lean design and construction: rapid prototyping, co-location, target value design
- Utilized BIM: the entire project is designed in Revit and construction coordination was done using BIM 360 Glue.

Other Spaces

- A new home for the BWH iHub (innovation hub)
- A bridge and tunnel linking the adjacent BWH Shapiro Cardiovascular Center to provide “coatless” connections for staff and patients

Credits

Architect: NBBJ
Lab Planner: Jacobs Consultancy
Structural: McNamara / Salvia, Inc.
MEP/FP/LV: BR+A Consulting Engineers, Inc.
Curtain Wall: Arup
Code: Hughes Associates
Acoustics/Vibration: Acentech
Parking: Walker Parking Consultants
Wind: RWDI
Lighting: NBBJ
Furniture: Tsoi/Kobus & Associates
Signage: Cloud Gehshan Associates
Vertical Transportation: Van Deusen Associates
Landscape: Klopfer Martin Design Group
Civil: VHB
Geotechnical: Haley & Aldrich
Waterproofing: Simpson Gumpertz & Heger
Construction Manager: Suffolk Construction
Owner’s Representative: Leggat McCall Properties
Brigham and Women's Hospital
Brigham Building for the Future

Typical Clinical Floor
Brigham and Women's Hospital

Brigham Building for the Future

Typical Research Floor