GROWING TOGETHER

An Update on Community Services, Amenities, and Benefits of Columbia University’s Manhattanville Campus in West Harlem

OCTOBER 2016

12th Avenue
133rd Street
132nd Street
Broadway
131st Street
130th Street
131st Street
130th Street
129th Street
125th Street

COLUMBIA | Manhattanville
Dear Friends and Neighbors,

Like cities themselves, universities exist so that a diversity of people can come together to live and work in a dynamic environment that is open to new ideas and new opportunity.

When we committed ourselves to creating a new kind of open, accessible university campus in Manhattanville, we knew it was essential for Columbia to use this as an opportunity to deepen our partnerships and engagement in West Harlem, with all the special magic and longtime challenges that coexist in our iconic home community. I believed that innovative, environmentally sustainable urban design should not only support Columbia’s mission of teaching and research, but also be a welcome addition to the dynamism of our city and the fabric of our neighborhood. This is our commitment—to grow together.

Now, after more than a decade of hard work and close collaboration by those at Columbia and members of our community, that vision of a shared future is coming to life during the 2016-17 academic year. As we open the first new university buildings in Manhattanville in the months ahead, I am glad to present this update on our progress. In addition to a report on construction activity, the pages that follow detail the University’s commitment to delivering the expanded community services, amenities, and benefits to our neighbors that are so essential to this endeavor. These add significantly to the breadth of health, education, cultural and economic partnerships and programs that Columbia and our community have together maintained for many years.

This long-term plan for an environmentally sustainable urban campus characterized by its open design, green spaces, cultural venues and retail amenities meant to be shared by all remains it its initial phase. But we have laid a strong foundation for ongoing collaboration between university and the Upper Manhattan community. From our focus on the most advanced clean construction techniques, to our track record of developing the capacity of minority, women and locally owned businesses, we are proud of the work we are doing and the progress we are making together. We are grateful to everyone who has contributed their energy and commitment to this shared effort.

As a university committed to public service in many forms, we look forward to welcoming you to our new Manhattanville campus.

Lee C. Bollinger

President, Columbia University in the City of New York
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It would be impossible to reach the historical milestone of dedicating a campus without the hard work of many people. That work began when several advisory committees were formed to help inform the University’s design and planning process. Those committees included a community committee with representatives focused on culture, the environment, housing, economic development and job creation/job training, a student committee, and a faculty committee.

Columbia incorporated many of the suggestions provided by the committees into the overall design of the campus. One of the central recommendations from the community was the need for a Community Benefits Agreement (CBA). The West Harlem Local Development Corporation (later renamed West Harlem Development Corporation) was formed to negotiate the Agreement and on May 18, 2009, the CBA was signed. The Declaration of Covenants and Restrictions was signed on December 14, 2011 codifying amenities and many of the CBA benefits. The University provides a report to the State of New York and, as part of its commitment to the community for transparency, posts the report submitted to Empire State Development online at: manhattanville.columbia.edu/community/benefits-and-amenities.

This publication, provided as the University prepares to dedicate the campus and the first of its new buildings—the Jerome L. Greene Science Center and the Lenfest Center for the Arts—will give the reader an update on amenities, benefits and building information for the first four buildings to open in the coming months and years. Additionally, the reader will learn about other programs and partnerships between the University and the community.

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The campus design and construction principles incorporate many of the ideals presented by the Columbia and local communities. The initial phase of the Manhattanville Campus development will include the Jerome L. Greene Science Center, the Lenfest Center for the Arts, a new home for the Columbia Business School, and the University Forum. Later phases will emphasize interdisciplinary scholarship as well as housing for graduate students and faculty.

**DESIGN**

A wisely thought out, transparent and predictable plan for the next quarter century gradually creates an urban academic campus that is woven into the fabric of the surrounding community.

The new campus brings to life the design principles from the Renzo Piano Building Workshop and Skidmore, Owings & Merrill master plan: accessible and open; active and inviting; and more.

**Transparent and Inviting.** Through form and function, the ground floors of the buildings bring people to and through them. The ground floor, also called the “Urban Layer,” will be filled with retail, restaurants, community programming and more. The transparent, glass facade makes the Urban Layer visually and physically accessible to the greater community.

**Efficiency Below Ground.** Contiguous underground space providing services for loading, energy and utilities across the new campus avoids redundancy in each building and allows the accessibility and transparency of the street-level Urban Layer to be achieved.

**Open Campus, Open Streets.** When construction for the new campus is completed, all streets of the existing street grid will remain public and open for vehicular traffic. Revitalized streets enhance the pedestrian experience with widened sidewalks, trees, street lighting and street furnishings—creating a more inviting path to the West Harlem Piers waterfront park. The absence of gates on the new campus maintains its functional openness.

**Design that Honors the Past and Sustains the Future.** New buildings are being designed in consideration of the distinctive architectural features of the historic Riverside Drive and Broadway viaducts. The University will continue to promote responsible environmental stewardship in construction, and energy efficiency in new and renovated buildings.

**Flexible Research Facilities and a Mix of Academic Uses.** Academic buildings will house classrooms and lecture halls; cultural and social spaces; conference and performance centers; research and administrative functions; and more.

The kinds of academic inquiry carried out in these buildings will include a range of endeavors, from laboratory research to scholarly investigations involving language, history, culture and the arts—the kind of cutting-edge research that makes Columbia a top global university.
CLEAN CONSTRUCTION

Construction in an urban environment can be disruptive. The University’s process uses innovative techniques to mitigate noise, air pollution and disruption to local residents, going above and beyond required regulations to keep the construction site clean and quiet. Notably, efforts to limit noise and vibration from the construction work have drawn expert praise.

Keeping the peace and quiet with:
- New and less noisy equipment
- Ambient sensitive, self-adjusting back-up alarms
- Equipment mufflers
- Cantilevered construction fence covered in noise-mitigating blankets
- Portable noise barriers

Other efforts have also included innovative recycling efforts, training community members in green construction skills, and improving the storm sewer system. Some of the diesel engines have been retrofitted to mitigate pollution, and every truck that leaves the site must have its wheels and undercarriage washed so it doesn’t carry dust out into the city streets.

To date, nine of the demolished buildings at Manhattanville were built with long leaf pine as their structural framing. Through those buildings, approximately 40,000 board feet of long leaf pine have been salvaged, and a portion of that wood has returned to the new Manhattanville and Morningside campuses at Columbia.

“Since the beginning of our work in Manhattanville, ninety percent of construction debris has been recycled. Once we completed the water and sewer system upgrades, 1.6 million gallons per year of wastewater overflow into the Hudson River was reduced, and Columbia’s Manhattanville Campus plan became the first campus plan anywhere in the U.S. to receive a LEED-ND Platinum designation for a Neighborhood Development plan. I am proud of our commitment to clean construction, community engagement, noise mitigation and innovation.”

– Marcelo Velez,
Vice President, Manhattanville Development Group
“Columbia’s plans reflect Jerry’s devotion to continually improving our city and to expanding educational and research opportunities through the institutions he cared most about.”

– Dawn M. Greene, the late philanthropist, on the gift honoring her husband, Jerome L. Greene

**Designed for Discovery**

**An Unrivaled Space for Exploring the Complexities of Mind, Brain, and Behavior**

The Jerome L. Greene Science Center was conceived as a place for human connection, intellectual excellence and pioneering research that cuts across traditional academic boundaries. Home to Columbia’s Mortimer B. Zuckerman Mind Brain Behavior Institute, it will be a thriving hub that brings together faculty and students from across Columbia University, scholars from around the world and members of the local community.

**At the Forefront of Understanding Mind, Brain, and Behavior**

At the Greene Science Center, hundreds of the world’s leading researchers will tackle the most exciting scientific challenge of our time: understanding how the brain works and gives rise to mind and behavior. The Zuckerman Institute, led by Nobel laureates, brings together a constellation of neuroscientists, engineers, statisticians, psychologists and scholars from across Columbia University and its medical center who will collaborate on research, teaching and public programming. A deeper understanding of the brain promises to transform human health and society.

“Buildings don’t fly, but if you take the Mind Brain Behavior Institute it flies, because the ground floor is actually public. It is public in the sense that this is where you share. There is a restaurant ... teaching, educational activity, meeting places, students. [It’s] accessible, open, and transparent. This is where the community life, street life, and University life combine. This is part of the story; it is a story about our time.”

– Renzo Piano, Chairman and Founding Partner, Renzo Piano Building Workshop

**Max Bond (1935 - 2009)**

The late Max Bond was known as the most influential African-American architect in New York City and was a partner in the Davis Brody Bond firm. Bond said, “…I look forward to my role in helping to shape this area of West Harlem. For more than two decades, people have tried to develop this area, I feel fortunate to be part of the team that will create the campus of the future—one that welcomes the community, meets the needs of a great university like Columbia, and contribute to the future of New York City.”

He passed away in 2009, but his early contributions provided a legacy upon which others could build.
Nurturing Connections

Designed by Pritzker Prize-winning architect Renzo Piano Building Workshop with Davis Brody Bond, LLP as executive architect and Body Lawson Associates, a Harlem-based certified Minority Business Enterprise (MBE), as associate architect, the nine-story, 450,000-square-foot structure is the largest that Columbia has ever built and the biggest academic science building in New York City.

The Greene Science Center creates innovative spaces for research that fuel a collision of ideas. Stairways that pair floors, common spaces with communal facilities, and a quadrant system that groups the labs of scientists with similar areas of inquiry will all foster idea sharing and problem solving among fellow researchers.

Urban Layer

Architect Renzo Piano planned the Jerome L. Greene Science Center’s ground floor to ensure that the “ritual of learning, teaching, exploring, and the ritual of everyday life come together.” With lively retail and restaurant options serving both the campus and local community, the building’s ground floor corridor, open to all, will also be a neighborhood-based resource for brain science education.

Built for Sustainability

Through the building’s design, Columbia University sought to ensure that the Jerome L. Greene Science Center would be a model of sustainable urban design. Unique elements of the Greene Science Center’s design will set a new standard for sustainable technology.

SUSTAINABLE URBAN DESIGN

- A double-skin aluminum and glass façade system creates a high-performance envelope that acts as an insulation blanket to help keep the building warm in the winter and cool in the summer.
- Solar sensors on the roof work continuously to raise or lower perimeter shades for maximum heating or cooling efficiency.
- High-reflective “cool roof” materials protect against the urban heat-island effect and reduce greenhouse gas emissions.
- Intuitive lighting controls regulate internal brightness to keep natural light indoors and conserve energy.
- A maximized selection of products from local and regional manufacturers within 500 miles of the project site, and the progressive use of recycled building materials reduces waste and shrinks the University’s carbon footprint.

Zuckerman Institute Public Programs

The ground floor of the Greene Science Center, open to all, will be a neighborhood-based resource for brain science education. It will also house a community Wellness Center offering stroke awareness trainings, mental health resources and free cholesterol and blood pressure screenings.

Education Lab: The education programs bring together groundbreaking research in creative and exciting ways for school children, families, after-school groups, teachers and seniors. At the Education Lab a variety of hands-on brain science programs will be available year-round, including weekends.

Located near the 129th Street entrance to the building, this 1,500 square foot space was designed to resemble the scientific research laboratories of the Zuckerman Institute.

Programming provides the next generation of scientists and people of all ages with an understanding of what science is and how it applies to their everyday lives.

“At its root, this is an investment in accomplished scholars whose collective mission is both greater understanding of the human condition and the discovery of new cures for human suffering.”

– Mortimer B. Zuckerman, business leader and philanthropist
Public Lecture Series and Teacher-Scholar Program: The Zuckerman Institute’s free public lecture series, the Stavros Niarchos Foundation Brain Insight Lectures, examines the ways that brain science intersects with everyday life. Each lecture features a Columbia researcher whose approaches to the science of brain and mind resonate with a public audience. The lectures, offered four times a year, are the scientific cornerstone of the Stavros Niarchos Foundation Teacher-Scholar program, a competitive program that introduces middle and high school science teachers in New York City to cutting-edge brain science for the duration of a school year. Teachers who complete the program emerge with greater knowledge of neuroscience, a deeper understanding of the scientific process and concrete ways to implement their knowledge in the classroom.

Brain Research Apprenticeships in New York at Columbia (BRAINyAC): Hands-on experience in a laboratory is a crucial component of preparing today’s youth to become the next generation of scientists. With this mind, the Zuckerman Institute’s Brain Research Apprenticeships in New York at Columbia (BRAINyAC) program provides an immersive science research experience in which high school students—primarily from upper Manhattan and the Bronx—train and work in neuroscience laboratories at Columbia University. More information on the BRAINyAC program can be found on page 20.

Community Brain Expo: Every spring during International Brain Awareness Week, the Zuckerman Institute hosts a Community Brain Expo featuring a few mind-boggling activities for all ages. In its new location at the Jerome L. Greene Science Center, visitors will be able to put their minds to the test as they learn how we see the world around us, how our memories work and other fundamental aspects of the mind and brain. The event is organized by Columbia University Neuroscience Outreach, a group of graduate students devoted to teaching the public about the mysteries of the mind.

BioBus: The Zuckerman Institute has partnered with the nonprofit BioBus, a scientific lab-on-wheels that visits schools and community centers in upper Manhattan and the Bronx. The BioBus, a retrofitted Airstream trailer equipped with state-of-the-art scientific equipment, is an immersive laboratory environment where scientists join students and the public for hands-on scientific exploration. This mobile science platform will travel across Harlem, Washington Heights and the South Bronx.

After experiencing the BioBus, students eager to learn more can return to the Education Lab and work with scientists on long-term science projects that can last weeks or months.

Wellness Center: A specially designed Wellness Center will provide health resources to serve area residents. Physicians from Columbia University Medical Center will host community-based initiatives to train members of the local community to become health advocates who prevent stroke and promote mental health. The center will also provide free cholesterol and blood pressure screenings.

Stroke Prevention: The Wellness Center will house the Community Health Worker (CHW) Stroke Prevention program, which empowers communities to combat stroke. The program includes 6-week trainings, held throughout the year at the Wellness Center, that give local residents the tools needed to become community health volunteers. The trained volunteers learn about various cardiovascular health topics, including motivational interviewing, with a special emphasis on stroke and related risk factors.

Alumni of the program serve as health advocates in their communities with the overall goal of improving stroke outcomes and lowering the prevalence of stroke and related risk factors. The curriculum was developed with the assistance of community focus groups and in consultation with experts in health education.

The program, modeled on the Center for Disease Control and Prevention’s CHW training curriculum, with the addition of culturally tailored multimedia components, is led by Dr. Olajide Williams, chief of staff of neurology and associate professor of neurology at Columbia University Medical Center, founder of Hip Hop Public Health, and codirector of the Center for Stroke Disparities Solutions in New York.

Mental Health: The Wellness Center will also be home base to Mental Health First Aid (MHFA), a program dedicated to improving access to quality mental health in the local community. African-Americans and Latinos have the lowest rates of mental health treatment in the United States. To address this disparity, MHFA works with local faith communities, training leaders to identify and respond to signs of depression and other mental illnesses, as well as substance use disorders like alcoholism.

Dr. Sidney Hankerson, assistant professor of clinical psychiatry at Columbia University’s College of Physicians & Surgeons and the New York State Psychiatric Institute, founded the program. His team teaches people to combat the stigma often associated with mental health problems and encourages others to seek medical help. MHFA will also provide mental health resources for the community (such as a list of local clinics) onsite at the Wellness Center.

Health Screenings: The Wellness Center will provide free blood pressure readings and cholesterol tests on weekdays and select weekends to all who walk in. Visitors will be given a record of their results, available upon request to their health provider, as well as information on ways they can improve their health. Wellness Center staff will offer information on free and low-cost clinical resources in the neighborhood and within the New York-Presbyterian/ Columbia University Medical Center community.
The Synapse: Located in the publicly accessible ground floor passages of the Greene Science Center, the Synapse will be an interactive and artistic portrayal of the brain science of Columbia’s Zuckerman Institute. The visualizations and exhibits of the Synapse draw upon the disciplines of architecture, journalism, art, psychology, education and design with the goal of creating an interactive public space. Like the brain’s synapses—small gaps that connect two neurons—this installation will be a connection between the science, the community, and the global landscape of neuroscience research. The design of the Synapse is led by an interdisciplinary pair of Columbia University faculty members: Laura Kurgan, associate professor of architecture, planning, and preservation at the Columbia Graduate School of Architecture, Planning and Preservation, and Mark Hansen, professor of journalism and innovation at the Columbia Graduate School of Journalism.

“Depression is the Number One cause of disability worldwide and in New York City.”
– Sidney Hankerson, MD, MBA

Clockwise, from top left: Dr. Sidney Hankerson, assistant professor of clinical psychiatry at Columbia University College of Physicians & Surgeons and the New York State State Psychiatric Institute capturing the emotions explored with positive mental health; Dr. Olajide Williams, chief of staff of neurology and associate professor of neurology at CUMC poses with children while teaching them about stroke prevention through his Hip Hop Public Health Initiative; Dr. Thomas M. Jessell, Zuckerman Institute codirector, speaks at a recent Brain Insight Lecture; Dr. Richard Axel, Nobel laureate, Zuckerman Institute codirector and University Professor, at a recent Brain Insight Lecture; Dr. Eric Kandel, Zuckerman Institute codirector; and Dr. Kelley Remole, director of Education and Outreach at the Zuckerman Institute, interacting with future scientists.
The Lenfest Center for the Arts will be the second building to open on the University’s Manhattanville campus. It is a multi-arts venue designed as a hub for the presentation and creation of art across disciplines, providing dynamic new space for Columbia University School of the Arts. It will host exhibitions, performances, screenings, symposia, readings and lectures that present new, global voices and perspectives. The building will also provide a new publicly accessible home for Columbia’s Miriam and Ira D. Wallach Art Gallery, allowing it to become a true community resource, and The Katharina Otto-Bernstein Screening Room, a brand new state-of-the-art facility.

The Lenfest Center for the Arts building was made possible by a gift from former University Trustee H.F. “Gerry” Lenfest (Law ’58, HON. ’89) and will serve as a vital epicenter for engagement in the rich cultural life of Columbia, Harlem and New York City at large. With a range of spaces suited to the presentation of work in multiple genres, the Lenfest Center for the Arts presents an unprecedented opportunity to expand partnerships between Columbia University School of the Arts, the University’s Wallach Art Gallery, and the diverse, dynamic arts communities that have long defined Harlem’s cultural legacy.

“... I think this will be the first time that we actually have a proper screening room to show film; a wonderfully flexible performance space where we can have our playwrights festival, which we’ve been doing in the East Village, or way downtown, or hidden in a little space somewhere. For the first time we’ll all be together in a building, and we’re hoping that will make the building feel very accessible.”

— Carol A. Becker, Dean, School of the Arts
**Sharing Art with the Community**

**The Wallach Art Gallery's move to Manhattanville brings benefits for both artists and neighbors**

For many years, Columbia’s premier art gallery remained tucked away out of the public eye. In an attractive but remote floor of the Schermerhorn Building at Morningside, the Miriam and Ira D. Wallach Art Gallery mounted hundreds of shows but was challenging to find. The gallery operates various programs for school groups and community members, but still most neighbors do not know how to find the Wallach, or that they will be warmly welcomed within.

Deborah Cullen, director and chief curator of the Wallach Gallery, is thrilled to open the doors of the Wallach’s new home at the Lenfest Center for the Arts. “I’m so excited that the Wallach Art Gallery is moving from the Morningside Heights Campus to West 125th Street,” she said. “We’re going from being tucked away very hard to find, to being centrally located for the campus and the broader community. We’re easier to find, now, and we look forward to continuing to build on those relationships.”

The new floor space is double that of the gallery’s previous home. With higher ceilings and a flexible floor plan, it offers a multitude of new opportunities to share art with neighbors.

“The Wallach can now operate at the intersection of contemporary art, art historical scholarship and community engagement, becoming an increasingly important part of New York City’s cultural life and placing the Gallery firmly on the City’s cultural map,” Cullen said.

**Year One: Visual Arts for the Community**

In its first year, the gallery will open with the Class of 2017 Master of Fine Arts Thesis Exhibition, bringing the work of visual arts graduate students to the neighborhood in Manhattanville for the first time in more than a decade.

Next, the gallery will spend its first full summer as a showcase for the work of contemporary artists living and working in uptown Manhattan, from El Barrio to Harlem to Washington Heights. The exhibition, called *Uptown*, will include a wide variety of local artists who are emerging, mid-career and experienced.

Plans for Fall 2017 include *Living in America: Frank Lloyd Wright, Harlem and Modern Housing*, an exhibition that overlaps with a corresponding show at the Museum of Modern Art.

“That exhibition will focus on Frank Lloyd Wright’s modern housing design in relationship to the rise of modern housing design in Harlem, two areas that have never been brought together before,” Cullen said.

Then, in Spring 2018, the gallery will host a scholarly show examining the role of Black models in fine art, how they are depicted, and how their images have changed in art, from 19th-Century Paris through contemporary times. That show, *Posing Modernity: The Black Muse from Manet to Matisse and Beyond*, is part of the dissertation of the University’s first post-doctoral Art History researcher.

**Neighborhood Partnerships**

With Harlem’s rich artistic history, and its multitude of local artists and galleries, Columbia values opportunities to build synergies that benefit both the University and its neighbors.

The Wallach Network, a working group of creative community members convened with the support of the Altman Foundation, comprises leading area artists and stakeholders committed to helping the Wallach Art Gallery identify, connect with, and better serve new and diverse constituencies. The network, established in 2014, enables stronger communication and synergies between the University and the many artists in the neighborhood.

“We want to work closely with the longstanding cultural institutions that have been here in the visual arts, including the Studio Museum in Harlem, El Museo del Barrio, and numerous others,” Cullen said.

“It’s been a pleasure working with Deborah Cullen, director and chief curator of the Wallach Art Gallery, in planning collaborations between Columbia and the surrounding community. The move of the Gallery to the Manhattanville Campus will open new doors and build bridges between the campus and its neighbors through robust and inviting programming, while actively engaging the history, culture and people of the immediate community.”

— Wallach Network Members: Daniela Fifi, adjunct professor at City College, Ed.D candidate in Art & Art Education, Teachers College; Alicia Grullón, artist/catalyst at The Laundromat Project’s Kelly Street Initiative; Diedra Harris-Kelley, artist, instructor, codirector at the Romare Bearden Foundation; Miguel Luciano, artist, faculty, Columbia School of Visual Arts, member of the Citizens’ Advisory Committee for New York City’s cultural plan; Ademola Olugebefola, artist/educator; Leanne Stella, director of Art In FLUX; Lara Tyson, art teacher at PS/MS 161 Pedro Albizu Campos; Souleo, independent curator.
A Forum for Engagement
An important new space where scholars and thought-leaders from many fields can come together to share ideas.

University Forum and Academic Conference Center
The gateway to the new Manhattanville campus, the University Forum, is a multi-purpose venue on the bustling corner of 125th Street and Broadway. The Forum will host academic conferences, meetings and symposia, providing an important new space where scholars and thought-leaders from many fields can come together to share ideas.

Multi-purpose Meeting Space
The Forum features a state-of-the-art, 430-seat auditorium, providing the kind of generous shared meeting space that Columbia has historically lacked. The 2,000 square-foot lobby in the building’s ground floor “Urban Layer” provides flexible space for a range of activities, from pop-up exhibits to University events and other public functions. The building also boasts meeting rooms, faculty offices and open gathering spaces.

Design and Construction
The University Forum was designed by Renzo Piano Building Workshop, with Dattner Architects as executive architect, and Caples Jefferson Architects, a certified Minority Business Enterprise (MBE), as associate architect. Skanska USA and the Velez Organization make up the construction management team for the Forum. It will have three levels and a below-grade space totaling approximately 56,000 square feet, with a main lobby and retail space at the street level Urban Layer. The building’s functions dictate its exterior and shape, while echoing elements of the Jerome L. Greene Science Center and Lenfest Center for the Arts.

The auditorium, whose function requires opaqueness, is expressed with a prefabricated concrete skin, whereas the offices, which require daylight, have a glazed facade, and the transparent ground floor is both conceptually and physically open to the public.

“Forty-five years ago my father started this company. Having grown up in the construction field, watching his business grow and then succeeding him, I recognize the importance of opportunity programs to be game changers for minority- and women-owned businesses. With that personal experience, it is a tremendous gift to be part of the University Forum project, where Columbia champions opportunities for minority, women and local businesses and workforce to help open doors and promote growth and empowerment for all.”

— Elizabeth Velez (left), President, The Velez Organization
The Small Square is bound by a tree-lined frame abutting an outdoor café seating area at the Jerome L. Greene Science Center to the east, a woodland walk to the west, the Lenfest Center for the Arts to the north and 129th Street to the south.

SMALL SQUARE

The Small Square creates a welcoming environment where both the University and the local communities can enjoy quiet outdoor space and events. At approximately 10,000 square feet, the Small Square will be the first open space available at the new Manhattanville Campus.

James Corner Field Operations designed the square as an informal outdoor space to engage with the public and the community. Integrated into the urban design, the Small Square improves the physical appearance of the streetscape with sidewalk amenities and landscaping. Like the outdoor space at the Morningside Heights campus, the Small Square will have free, open Wi-Fi for the community.

Other features include high-reflectance concrete paving, native trees, at least 30 moveable seats for public use, and seating made from reclaimed or recycled materials that embody Columbia’s commitment to sustainable practices. There will also be events on the Small Square, some of which will be designed especially for members of the community.

“The new campus plan features publicly accessible green space, widened tree-lined sidewalks, retail stores and restaurants that welcome the entire community to share. We look forward to the enhanced connections that will take place as more of the campus comes on line.”

— David Greenberg, Executive Vice President, Columbia University Facilities and Operations

Unlike a traditional campus from an earlier era, there are no gates on the new Manhattanville campus. Designed to fit within the blocks of open, reanimated streets, the campus plan encompasses publicly accessible paths, open space, tree-lined sidewalks and innovative buildings whose very transparency encourages shared knowledge and socializing.
LOOKING TO THE FUTURE...

COLUMBIA BUSINESS SCHOOL

Engaging the future of business and entrepreneurship

Designed for flexibility, Columbia Business School’s new home will be high-tech and highly social.

In its new home on the Manhattanville Campus, Columbia Business School will span approximately 492,000 square feet across two buildings, and will reflect the fast-paced, high-tech and highly social character of business in the 21st Century. The two new facilities will create multifunctional spaces that foster a sense of community—spaces where students, faculty, alumni and practitioners can gather to exchange ideas. Between the two buildings will be the largest planned open area in phase one of construction—an approximately 40,000 square-foot area known as The Square.

The Ronald O. Perelman Center for Business Innovation and the Henry R. Kravis Building

Both buildings are the result of landmark gifts of $125 million from alumnus Henry R. Kravis (69), co-founder, co-chairman, and co-CEO of Kohlberg Kravis Roberts & Co. (KKR) and co-chair of the School’s Board of Overseers; and $100 million from Ronald O. Perelman, chairman and CEO of MacAndrews & Forbes Holdings Inc. and a member of the School’s Board of Overseers.

High-Tech and Highly Social

The structures are designed by renowned New York architecture firm Diller Scofidio + Renfro in collaboration with FXFOWLE Architects as executive architect and Harlem-based AARRIS ATEPA Architects, a certified Women and Minority Business Enterprise (WMBE), as associate architect. The firms’ ideas-based approach to architecture complements the School’s operating principle for the Manhattanville Campus—that the project is not about bricks and mortar, but rather about transforming the School, business education and business itself.

“These new facilities will enable us to deepen the two-way ties between the School’s intellectual capital and business practitioners. We will be able to connect local entrepreneurs with cutting-edge knowledge and skills and, in turn, deepen our students’ ability to apply what they are learning in the classroom to the real world.”

– Glenn Hubbard, Dean, Columbia Business School

Designed for Flexibility

The designs include spaces that encourage the development of social intelligence skills and collaboration across disciplines; flexible classroom space with the latest technology; dedicated spaces for recruiting, events, and networking; and an alumni welcome center. Recognizing that creativity, innovation and communication—skills often nurtured in informal environments—are as important to contemporary business school pedagogy as the traditional, quantitative skills best taught in a classroom, the building’s internal spaces are organized around two distinct networks that foster informal interaction between the students and faculty. Each network is a combination of circulation routes, lounge spaces, dining facilities and study rooms that facilitate planned and unplanned interaction 24 hours a day.

Where these networks meet the landscape at the street-level Urban Layer, major public spaces are established: in one building, a two-story, urban scale living room, and in the other, a terraced interior space that doubles as a 300-seat large conference space.

Where Business and the Harlem Community Intersect

Columbia-Harlem Small Business Development Center

Since its inception in 2009, the expert advisers of the Columbia-Harlem Small Business Development Center (SBDC) have provided local small businesses and entrepreneurs with tools and resources to help them succeed, from intensive one-on-one counseling to business development workshops and more. The SBDC has cultivated a network of experts, mentors and program alumni in all industries, allowing many new clients to access expertise specific to their industry. Meanwhile, the SBDC’s connection to Columbia Business School also gives clients access to world-renowned faculty members, business students and alumni business leaders. As part of a strong commitment to the business community in

For more information, please visit: gsb.columbia.edu/manhattanville
Upper Manhattan, Columbia University provides all the services of the Columbia-Harlem SBDC to participants at no cost.

For more information, please visit: gsb.columbia.edu/sbdc

**Columbia Community Business Program**

Run by the Columbia-Harlem SBDC, the Columbia Community Business Program (CCBP) is an executive education program designed to support the growth and development of for-profit businesses in Upper Manhattan. The program offers participants access to Columbia University’s resources for technical assistance, entrepreneurial education and professionally facilitated peer learning.

Each cohort consists of 20 competitively selected community businesses to participate in the two-year program. Participating businesses must generate $250,000 to $5,000,000 of annual revenue at time of program entry. Through the program, which includes guest lecturers from Columbia University faculty and alumni, participants will complete and implement a three-year growth plan.

After graduation, CCBP alumni can continue to work closely with Columbia-Harlem SBDC counselors and participate in Columbia University entrepreneurship events. For more information, please visit: gsb.columbia.edu/sbdc/ccbpa

**Columbia Community Business Program Case Studies:**

**Ayala Donchin, Evelyn’s Kitchen**

Ayala Donchin opened the retail store for her business Evelyn’s Kitchen a month before she began participating in the Columbia Community Business Program in 2012. At the time, the two-year-old East Harlem-based company sold baked goods to local restaurants. Since then, Evelyn’s Kitchen has expanded to include a café and a second catering kitchen which provides craft services and comprehensive catering for events. During the course of the Columbia Community Business Program, annual revenue increased by 200 percent and Evelyn’s Kitchen added 12 full time jobs, hiring from the local community. Ayala looks forward to expanding retail outlets to new cities and growing dessert sales by mail in the near future.

“My business would not be where it is if it were not for participation in programs like the Columbia Community Business Program.”

-- Ayala Donchin, Evelyn’s Kitchen

**Pat’s Moving and Storage**

Patrick Ellerbe, CEO and president of Pat’s Moving and Storage on West 116th Street, was part of the Columbia Community Business Program’s fourth cohort. Formerly a doorman, Ellerbe followed his passion to become an entrepreneur, and his moving and storage business is now more than 10 years old. To help in expanding his business, the Columbia Community Business Program gave him the space to step back from the daily grind of running his business to try to understand what it needs. When he first joined the Columbia Community Business Program, his company had three trucks and a single location. He has since purchased two additional trucks and opened a second location in the Bronx. Ellerbe’s goal is to buy a building and open his own storage facility, which would allow him to expand his business.

“I am so hands-on and always working, I can only see what’s right in front of me, so this [program] is a great asset.”

-- Patrick Ellerbe, Pat’s Moving and Storage
Under the Declaration of Covenants and Restrictions (Declaration) and the Community Benefits Agreement (CBA), the University committed to providing significant financial resources to various organizations for the community to administer and meet community-identified needs. Since 2008, more than $44 million has been provided, and over the next couple of decades, more than $160 million will be provided to meet community-identified priorities.

### For the period 2008 to September 2016:

<table>
<thead>
<tr>
<th>Commitment</th>
<th>Receipt of Funds</th>
<th>Total Value</th>
<th>Paid to Date</th>
<th>For More Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Affordable Housing Fund</td>
<td>City of New York</td>
<td>$20,000,000</td>
<td>$10,000,000</td>
<td>The City of New York receives the funds and selects a recipient to administer. In 2014, the West Harlem Development Corporation (WHDC) was the recipient.</td>
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<td>Community Benefits Fund</td>
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</tr>
<tr>
<td>Community-Provided Job Training</td>
<td>Empire State Development</td>
<td>$500,000</td>
<td>$400,000</td>
<td>For more information, please contact Empire State Development or visit their website: <a href="http://esd.ny.gov/">http://esd.ny.gov/</a></td>
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<tr>
<td>Harlem Community Development Corporation (HCDC) Financial Contribution</td>
<td>Harlem Community Development Corporation (HCDC)</td>
<td>$20,000,000</td>
<td>$2,750,000</td>
<td>For questions related to the funds, contact the Harlem Community Development Corporation (HCDC) or visit their website: <a href="http://www.harlembdc.org">http://www.harlembdc.org</a></td>
</tr>
<tr>
<td>Housing Legal Assistance</td>
<td>Legal Services NYC</td>
<td>$4,000,000</td>
<td>$1,200,000</td>
<td>Legal Services NYC has been selected as service provider of housing legal services for residents of the Manhattanville area. Contact Legal Services NYC directly at <a href="http://www.legalservicesnyc.org">http://www.legalservicesnyc.org</a> and ask a representative if you are eligible for the benefit described.</td>
</tr>
<tr>
<td>Medical Technician Training Program CUNY</td>
<td>City University of New York (CUNY)</td>
<td>$1,000,000</td>
<td>$600,000</td>
<td>For more information on the CUNY–Columbia University Health Sciences Program (The Stanley E. Michels Health Careers Scholarship), please visit: <a href="http://www.cuny.edu/about/administration/offices/sa/services/career/StanleyEMichelsScholarship.html">http://www.cuny.edu/about/administration/offices/sa/services/career/StanleyEMichelsScholarship.html</a></td>
</tr>
<tr>
<td>Teachers College Demonstration Public School</td>
<td>Teachers College Community School</td>
<td>$30,000,000</td>
<td>$2,058,458</td>
<td>Columbia University shall provide up to $30 million to Teachers College Community School in services, expertise or other resources including cash support. For more information regarding Teachers College Community School, please visit the school’s website: <a href="http://www.tc.columbia.edu/communityschool">http://www.tc.columbia.edu/communityschool</a></td>
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<tr>
<td>West Harlem Piers Park</td>
<td>New York Parks Department</td>
<td>$18,100,000</td>
<td>$3,977,847</td>
<td>For more information about this park, please visit: <a href="https://www.nycgovparks.org/parks/west-harlem-piers">https://www.nycgovparks.org/parks/west-harlem-piers</a></td>
</tr>
</tbody>
</table>

Total: $169,600,000  $ 44,236,305
SECTION THREE: ACADEMIC INVESTMENTS

“Columbia is fortunate to have outstanding faculty and researchers dedicated to the local and global community. The many programs we hold and investments we make that prepare the next generation of leaders are investments that address society’s greatest opportunities and challenges, and our commitment to life-long learning demonstrates our dedication to constantly searching for more and better ways to grow together.”

– John Coatsworth, Provost, Columbia University
YOUTH INTERNSHIPS

Overview

Columbia University offers a variety of programs that help local youth gain valuable work experience. Some of these programs are the Columbia University Local Community High School Summer Internship Program, a structured, five-week initiative that provides students with practical work experience before graduation; Brain Research Apprenticeships in New York at Columbia (BRAINYAC), a program that pairs high school students with scientists for intensive lab apprenticeships; the Architecture, Construction, and Engineering (ACE) Mentorship program, which provides real-world insight into building design and construction; and Engineering the Next Generation (ENG), a program for high school students interested in engineering. Students from the thirteen zip codes comprising the Upper Manhattan Empowerment Zone and from four zip codes in the Bronx Empowerment Zone are encouraged to participate in these programs, as well as other youth internship initiatives across Columbia’s campuses.

Columbia University Local Community High School Internship Program

Jonathan Samaniego, a former participant in the Local Community High School Summer Internship Program, interned with the Construction Business Services and Communications office in 2011 and 2012.

A resident of Manhattanville, Samaniego heard about the internship program from his mother, who saw a flyer advertising the position at a tenant meeting in their building.

“The whole internship process, especially at a prestigious school like this, means a lot and goes a long way on your résumé,” Samaniego said. “People look at you differently when they know you’ve had an internship at Columbia, and the whole experience of me working at a young age, but not being treated as a kid—being treated as a peer—prepared me for the workplace.”

Samaniego graduated from the State University of New York (SUNY) Polytechnic Institute in 2016 with a degree in Biology, and he said he still uses skills he learned during his internship at Columbia. After participating in the summer of 2011, he enjoyed his internship so much he returned the next summer to impart his knowledge to a younger class of interns.

“That was my first job, my first time working in an office,” he said. “What was asked of the interns were real responsibilities that prepared you for the real world.”

Another former intern, Laura Willson, now attends Hunter College and majors in Computer Science. Her internship in the ticketing office of Miller Theater

“I want to contribute to the community. To see people use something that I made will be really rewarding.”

– Laura Willson, Former Intern
when she was 14 years old broadened her communication skills and prepared her to manage her time wisely throughout high school, and now in college.

“I learned you shouldn’t be afraid to ask for help if you don’t know something,” Willson said. “It sounds simple, but it’s actually a really important job skill that my supervisor at Columbia taught me.”

Both Samaniego and Willson endeavor to give back to their communities through their chosen careers, as well as in their free time. Samaniego coaches a youth soccer league in the summer, and aspires to secure a career in the medical field. Willson hopes to someday use her coding skills to develop an app that will help make people’s lives easier.

“I want to contribute to the community,” Willson said. “To see people use something that I made will be really rewarding.”

After his two summers at Columbia, Samaniego said he looks forward to entering the “real world”—an often daunting prospect for recent college graduates. It’s because of the environment in which he interned, Samaniego said, that he is so enthusiastic about entering the workplace.

“At a young age I found out that work isn’t so bad,” he said. “The people at Columbia were great, and they made me want to go to work every day. It taught me that being an adult isn’t as scary as I thought.”

The Columbia University Local Community High School Summer Internship Program provided paid internships to more than 50 youth participants.

BRAINYAC

The Zuckerman Institute’s BRAINYAC program is an immersive science research experience in which Zuckerman Institute scientists open their doors to high school students, who in turn bring their talents and perspectives to the lab. Since 2013, BRAINYAC has paired high schoolers with scientists who mentor them throughout six weeks of intensive summer research. The program prepares students for laboratory research through training sessions, which run from January through May, followed by the six-week period of intensive research during the summer. Upon completing the program, students come away with an increased understanding of how research in the lab leads to transformative discoveries.
Eligible sophomores and juniors are drawn from select youth-serving programs: the Lang Youth Medical Program at New York-Presbyterian Hospital; the State Pre-college Enrichment Program run by Columbia University Medical Center; the Double Discovery Center; and the Columbia Secondary School for Math, Science and Engineering.

BRAINYAC receives generous support from the Pinkerton Foundation and the Stavros Niarchos Foundation.

At this time, the BRAINYAC program only accepts applications from students nominated by the above partner programs.

Chidi Paige, education program manager at the Mortimer B. Zuckerman Mind Brain Behavior Institute, had this to say about the program:

“The BRAINYAC program impacts the participants’ career paths by providing an avenue to cultivate and jump start skills necessary for a successful science career, through the rigorous science research experience in various labs across Columbia. The program works with students who have an enthusiasm for science, but might not have the opportunity to connect to science research otherwise. We hope that the program continues to contribute to building the next generation of scientists … one student at a time.”

— Chidi Paige, Education Program Manager at the Zuckerman Mind Brain Behavior Institute

ACE Mentorship Program

January 2016 marked the seventh time Columbia’s Manhattanville Development Group (MDG) and its professional team of engineers, architects and construction managers participated in the Architecture, Construction and Engineering (ACE) Mentorship program, providing real-world insight into building design and construction for local students.

This year was the first time students from Columbia Secondary School (CSS), a public math, science and engineering school covering 6th through 12th grades, were part of the Columbia Manhattanville team.

High school students from the Columbia Manhattanville ACE Mentorship team constructing a structure using spaghetti and masking tape during an activity that introduced them to basic principles of design and engineering. Students were competing to build the tallest structure that could balance a marshmallow at its peak.

Columbia’s Engineering the Next Generation (ENG) Program

For the third year, the Columbia School of Engineering ran a summer program for high school students called Engineering the Next Generation (ENG). ENG is an opportunity for motivated high school students from local partner schools to participate in a six-week intensive research program that includes both lab work and supplemental programming to develop their academic and professional skills. Students gain practical research experience, exposure to lab culture, new skills and multi-level mentorship. Program components include working with Engineering faculty, hands-on research skills and experience, master class, poster symposium presentation, college letter of recommendation, and the possibilities of ongoing research and publication in the Columbia Undergraduate Science Journal.

Students participating in ENG stand next to one of their projects.
Columbia consistently ranks in the top tier of Ivy League universities for student diversity. In the fall of 2010, Columbia began providing at least 40 annual need-based undergraduate scholarships to local, aid-eligible students. Once students are admitted to Columbia College or The Fu Foundation School of Engineering and Applied Sciences, the Office of Undergraduate Admissions and Financial Aid evaluates each student individually in order to determine his or her financial need.

The Thompson-Muñoz Scholars are named in recognition of Albert Thompson and Carlos Muñoz, two notable Columbia alumni who were born and raised in Harlem. Thompson graduated from Columbia College in 1954 before serving as a lieutenant in the Naval Reserves and later graduating from Columbia’s College of Dental Medicine, where he now works as an assistant clinical professor and acts as an alumni leader. Muñoz, who graduated from Columbia College in 1957 and earned a master’s degree in economics from the University, went on to lead a distinguished career in finance before retiring as executive vice president for credit and risk management for Dime Bancorp and the Dime Savings Bank of New York. A former president of the Columbia College Alumni Association and a member of Columbia College's Board of Visitors, he is one of the College's most visible alumni.

For more information on Columbia Undergraduate Scholarships, contact the Office of Undergraduate Admissions and Financial Aid at 212-854-3711.

### Undergraduate Scholarships for Local, Aid-Eligible Students

<table>
<thead>
<tr>
<th>Academic Year</th>
<th>Number of Scholarships Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009-2010</td>
<td>50</td>
</tr>
<tr>
<td>2010-2011</td>
<td>43</td>
</tr>
<tr>
<td>2011-2012</td>
<td>41</td>
</tr>
<tr>
<td>2012-2013</td>
<td>40</td>
</tr>
<tr>
<td>2013-2014</td>
<td>40</td>
</tr>
<tr>
<td>2014-2015</td>
<td>44</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>258</strong></td>
</tr>
</tbody>
</table>

Carlos Muñoz and Albert Thompson stand with some of the recipients of the Thompson-Muñoz scholarship. Thompson (CC’54), a Columbia shotput record-holder who continued his track and field career in the Naval Reserves, graduated from both Columbia College and the College of Dental Medicine. Muñoz (CC’57, MA’61) likewise earned a pair of degrees from the University, graduating from the College before earning a master’s degree in economics. He climbed to executive vice president for credit and risk management at Dime Savings Bank of New York.
Growing Together

As part of its commitment to the community in connection with the Manhattanville campus expansion, Columbia established a Community Scholars Program to offer adults from northern Manhattan access to Columbia University services and resources.

The Community Scholars Program supports and facilitates the work of individuals toward the completion of a particular project, or toward attaining skills in a specific area of interest. Services and resources are provided at no cost to participants, and include access to all University libraries—including online access, course auditing privileges, dialogue with scholars in their field of study and the ability to participate in seminars and social events developed specifically for the group.

Since 2013, Columbia has selected a total of 18 local community residents to participate as Community Scholars.

For more information, please direct inquiries about the Community Scholars Program to 212-854-4289, or communityaffairs@columbia.edu

SCHOLARSHIPS TO LIFELONG LEARNERS AND COURSE AUDITING

Columbia University funds up to two courses per year for each of 50 residents (25 residents from NYCHA Manhattanville and Grant Houses and 25 residents from the local community) to participate in Columbia’s School of Continuing Education Lifelong Learner’s Auditing Program, designed for individuals over 65 years of age who are committed to the principles of lifelong education.

Columbia also funds up to 50 courses per year through Columbia’s Continuing Education Auditing Program for residents (25 residents from NYCHA Manhattanville and Grant Houses and 25 residents from the local community), designed for adults not currently enrolled in college, with the opportunity to attend selected lectures drawn from Columbia’s offerings in the Arts and Sciences.

Lifelong Learners and Auditors are encouraged to attend classes and keep up with the reading. No examinations or papers are required, and no grade is assigned. As of October 2016, members of the local community have audited 160 courses.

More information is available at sps.columbia.edu/auditing

“We are proud to offer the School’s rigorous, market-driven courses to support the academic and professional aspirations of our community. I look forward to seeing more local community members taking advantage of these scholarships.”

– Jason Wingard, Dean, Columbia University School of Professional Studies

COMMUNITY SCHOLARS

From left to right: Community Scholars Mariama Keita, John Reddick, Sheila Anderson, Martha Diaz, Steven A. Watkins, Paula Kimper, and Eric K. Washington
Meet Eric K. Washington, Community Scholar

Eric K. Washington is an independent historian and author. He is also the owner of Tagging-the-Past, which endeavors to reconnect forgotten history to present landscapes through articles, talks and tours. The focus of his Community Scholars project is to advance work and research on book, tour and talk projects that aim to reclaim forgotten history and heritage from many of upper Manhattan’s languishing neighborhood sites. Washington has created two new walking tours of Hamilton Heights and Sugar Hill in Harlem, in partnership with the Municipal Art Society of New York. He also continues work on his book, and has served as an exhibit scholar for Columbia University’s interpretive exhibit Manhattanville: A New York Nexus, focusing on the history of Sheffield Farms and the milk industry in Manhattanville.

“Use of libraries, where I can comb over old newspapers going back to the last century and beyond has been invaluable. Access to interviews and profiles of people who were living then sheds an incredible amount of light on [my work].”

– Eric K. Washington, Columbia Community Scholar

“Community Scholars have been a tremendously welcome addition to campus life—not only are they taking advantage of University resources to support their own work, they have found numerous opportunities to share their considerable knowledge and experience with faculty and students. This program epitomizes the spirit of partnership between campus and community.”

– Maxine Griffith, Executive Vice President for Government & Community Affairs and Special Advisor, Campus Planning

GRADUATE SCHOLARSHIPS FOR ELEMENTARY SCHOOL TEACHERS

In an effort to enhance the quality of elementary school education within the local community, and as a key part of Columbia University’s strong commitment to supporting quality education for the community, Columbia University offers a scholarship for qualified teachers to earn a master’s degree in an appropriate field at Columbia University or Teacher’s College. The scholarships, covering no more than 18 credits per year, are awarded to qualified elementary school teachers either currently teaching within Community District 9 or interested in teaching elementary school within Community District 9. All scholarship recipients must commit to teach within Community District 9 for five years following the completion of their program.

COLUMBIA SECONDARY SCHOOL FOR MATH, SCIENCE, & ENGINEERING

The Columbia Secondary School for Math, Science, & Engineering (CSS-MSE) is a selective, public, 6th through 12th grade school that opened in fall 2007 in partnership with the New York City Department of Education, the community and Columbia University. CSS-MSE admits students from Districts 3, 4, 5 and 6, providing a rigorous and demanding college-prep curriculum to one of the most diverse student bodies in New York City, and annually achieving a near-100 percent graduation and college acceptance rate.

CSS-MSE uses a holistic approach to build on students’ own life experiences, explore their potential and help them find a direction. The school establishes opportunities for students to engage in research and service learning across the city and at Columbia, where they also may attend credited courses tuition-free. The rigorous and comprehensive educational
Growing Together

Teachers College and the New York City Department of Education opened Teachers College Community School (TCCS) in September 2011. It is a non-selective school that is intended to demonstrate how affiliation with an institution of higher education can support an outstanding public school education for children in the community near the college campus. TCCS is also a demonstration site for implementation of comprehensive educational services including out-of-school time learning opportunities such as after school and weekend programs, and social and health services that support a child’s ability to learn. Currently enrolling students in grades Pre-K through 5th, the school is phasing in one grade level per year. When fully enrolled, it will serve children in grades Pre-K through 8th grade.

Enrollment: As of September 2016, the school is matriculating students in Pre-K through 5th grade, with the capacity to enroll 318 students.

Admissions: The Teachers College Community School is a non-zoned school that admits Pre-K and kindergarten students by lottery. The lottery process is managed by the New York City Department of Education.

More information can be found at tc.columbia.edu/communityschool

— Miriam Nightengale, Principal, Columbia Secondary School for Math, Science & Engineering

“By offering shared exploration and high-level instruction, CSS-MSE works to level the playing field and to help every student, regardless of resources, find a path that matches his or her aspirations. For example, a student who might not otherwise have applied to a particular college or considered a particular career—or thought it out of his or her league—is advised on what courses lead to that path, given the skills to succeed and mentored along the way. They do this in an environment where peers from all walks of life are the norm. This is part of CSS’s mission and what we owe to our students.”

model fosters cross-disciplinary inquiry and experimentation. Students are encouraged to build upon early interests—whether about dinosaurs, airplanes, creative writing, neuroscience or robots—and participate in a wide variety of internships, competitions and multi-stage projects, many in close, long-term collaboration with Columbia’s faculty.

“Combined, these elements open paths to higher education,” said Miriam Nightengale, who has served as the school’s principal since 2011.

More information can be found at www.columbiasecondary.org

Columbia Secondary School graduating class of 2015.

TEACHERS COLLEGE COMMUNITY SCHOOL

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Columbia Secondary School graduating class of 2015.
COMMUNICATION, EDUCATION AND OUTREACH (CEO) PROGRAM

As far-reaching and innovative as all of Columbia’s efforts have been, none of them would be as effective without a strong Communication, Education and Outreach (CEO) Program. Columbia shares information regarding opportunities and construction schedules, and meets with the local community to answer questions regarding the Manhattanville Campus.

Additionally, Columbia University Facilities and Operations formed a Minority, Women and Local (MWL) Advisory Council to advise the University on promising practices and ways to enhance the CEO Program. The Advisory Committee, formed in 2009, consisted of leadership from key organizations that understood the complexities of business, construction and community. Each representative had a sincere commitment to working with Columbia and the community.

CEO PROGRAM

After extensive research regarding community communication and outreach, Columbia staff designed a program to provide as much information as possible to as many people as possible. Components included:

1. Communication: Beginning with the University’s leadership, Joe Ienuso, former executive vice president for Facilities and Operations, and Philip Pitruzzello, former senior vice president for Manhattanville Development Group, emphasized Columbia’s commitment to the MWL community, as well as clean and innovative construction techniques. The University held events to communicate regarding contracting and workforce opportunities. In an effort to avoid limiting information to the Manhattanville Campus alone, Columbia ensured that every outreach event included information about other construction and workforce opportunities throughout the University.

2. Construction Alerts: Every two weeks, an update is provided to the community, keeping in mind that construction is not always convenient for people in the surrounding area. Columbia recognizes that for the Manhattanville community, it is imperative that residents be made aware of upcoming work so they can adequately prepare. Additionally, as unrelated work is taking place within the community, Columbia provides as much information as possible to let residents know where to direct their questions.

Paper copies of construction alerts are available at the construction site and are provided electronically to anyone who subscribes at manhattanville.columbia.edu.

3. 24/7 hotline: Columbia staffs a 24/7 call center answered by a human being. At any time, a call can be placed to 212-854-2222 with a question regarding Manhattanville construction. The inquiry is logged and tracked to ensure that Columbia staff follows up.

4. A Monthly Newsletter: As more information became available regarding benefits and amenities, opportunities, job fairs, community initiatives and more, a monthly newsletter was created to share this information with the community. Hard copies are distributed at various locations in the neighborhood, and anyone can sign up for the alerts and newsletter by subscribing at manhattanville.columbia.edu.

5. Point of contact: Those interested in working at the Manhattanville site were encouraged to contact McKissack Community Employment Office. Benefits of working directly with McKissack included a local office on 125th Street, a screening process for qualifications, and referrals to other construction work being completed by McKissack. With the University Forum beginning construction, Skanska USA and the Velez Organization began reaching out to prospective workers, and Columbia is engaging a firm to expand on workforce communication and outreach efforts.

Often, people did not understand that Lendlease, the Construction Management (CM) Firm, was responsible for the selection of construction firms, and that those firms hired workers following union practices. The intensely complex system required the commitment of the CM firm and all of...
the subcontracting firms, even with the contract language mandating high standards. Through outreach meetings and assistance from the MWL Advisory Council, over time the various systems began to work. For the first time, the Building Trades Employers’ Association (BTEA) gave an award for the Communications, Education and Outreach Program with Columbia as the recipient.

“BTEA is proud to recognize Columbia’s innovative approach to diversity outreach and engaging the community in the construction of the Manhattanville campus as well as ongoing M/WBE efforts in their future capital construction program,” said BTEA President and CEO Louis Coletti.

“These characteristics allow New York City to maintain its position as the capital of the world.”

“I am extremely proud of the CEO program we put into place. It is the result of many talented and dedicated Columbia employees who recognized that we had a big job to do. Working with individual community members, small grassroots organizations and large institutions all relying on diverse methods of communication required—and still requires—creativity, patience and in some cases redundancy. The CEO Program along with the MWL Advisory Council’s guidance allowed Columbia to meet some of our goals. Construction is about more than the buildings being built. It is about the people that will be served in those buildings.”

— La-Verna Fountain, Vice President, Columbia University Strategic Communications and Construction Business Initiatives

BUILDING TRADES EMPLOYERS’ ASSOCIATION OF NEW YORK CITY: Award for Construction Communication

In June of 2016, the Building Trades Employers’ Association of New York City honored Columbia at the Annual Leadership Awards Event for its innovative approach to Minority and Women Business Enterprise outreach and engagement of the community in the building of the Jerome L. Greene Science Center and the Lenfest Center for the Arts, as well as Columbia’s overall efforts at the Manhattanville Campus.

Construction is more than its design, bricks and mortar; construction is about the vision, the promise and people. Before, during and after the completion of a construction project, it is paramount that Columbia builds the most comprehensive communication and outreach plan possible to let the people know what is happening, the vision of how the construction will enhance lives, and the promise to do everything possible to operate in a way that would make the University, the Construction Management firm, the subcontractors, the workforce, and the community proud.

Construction impacts are not always easy to live with, but the University provides weekly updates and monthly newsletters, and 24/7 contact with a live person if there are construction questions or concerns. Additionally, information sessions and open houses are held, offering the public ways to learn about the project as well as learn about job and networking opportunities for contractors. Numerous community meetings are held to answer questions, respond to concerns and update the community on the construction progress.

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“These characteristics allow New York City to maintain its position as the capital of the world.”

“I am extremely proud of the CEO program we put into place. It is the result of many talented and dedicated Columbia employees who recognized that we had a big job to do. Working with individual community members, small grassroots organizations and large institutions all relying on diverse methods of communication required—and still requires—creativity, patience and in some cases redundancy. The CEO Program along with the MWL Advisory Council’s guidance allowed Columbia to meet some of our goals. Construction is about more than the buildings being built. It is about the people that will be served in those buildings.”

— La-Verna Fountain, Vice President, Columbia University Strategic Communications and Construction Business Initiatives

BUILDING TRADES EMPLOYERS’ ASSOCIATION OF NEW YORK CITY: Award for Construction Communication

In June of 2016, the Building Trades Employers’ Association of New York City honored Columbia at the Annual Leadership Awards Event for its innovative approach to Minority and Women Business Enterprise outreach and engagement of the community in the building of the Jerome L. Greene Science Center and the Lenfest Center for the Arts, as well as Columbia’s overall efforts at the Manhattanville Campus.

Construction is more than its design, bricks and mortar; construction is about the vision, the promise and people. Before, during and after the completion of a construction project, it is paramount that Columbia builds the most comprehensive communication and outreach plan possible to let the people know what is happening, the vision of how the construction will enhance lives, and the promise to do everything possible to operate in a way that would make the University, the Construction Management firm, the subcontractors, the workforce, and the community proud.

Construction impacts are not always easy to live with, but the University provides weekly updates and monthly newsletters, and 24/7 contact with a live person if there are construction questions or concerns. Additionally, information sessions and open houses are held, offering the public ways to learn about the project as well as learn about job and networking opportunities for contractors. Numerous community meetings are held to answer questions, respond to concerns and update the community on the construction progress.
EMPIRE STATE DEVELOPMENT AND COLUMBIA UNIVERSITY PARTNER TO SHARE BUSINESS, CAREER AND JOB READINESS INFORMATION

On April 17, 2015, the University partnered with Empire State Development (ESD) and the Columbia-Harlem Small Business Development Center (SBDC) to host a Minority-, Women-Business Enterprise (MWBE) and Small Business Resource Expo. More than 175 minority-, women- and small-business owners from Harlem and throughout the five boroughs attended the event. They had the opportunity to speak with representatives from New York State, learn about upcoming construction opportunities at Columbia’s Manhattanville Campus, and network with fellow business owners.

In addition to a full day of informal networking and instructional workshops, ESD representatives and Columbia University staff provided on-the-ground financial and technical assistance on the MWBE certification process, employment readiness, finance and business development. They also provided information about retail and construction subcontracting opportunities at Columbia’s Manhattanville Campus.

Representatives from the Velez Organization and Skanska USA, the construction manager for the University Forum building at Columbia’s Manhattanville Campus, discussed upcoming MWBE construction contracting opportunities, and Winick Realty Group was on hand to discuss retail leasing opportunities at Columbia’s Manhattanville development.

Columbia partnered with ESD again on September 7, 2016 to host a Career and Resource Expo to identify prospective staff for open positions. The goal of the job fair was to provide job opportunities for qualified candidates and share job training information with those who seek or require greater skills.

As Columbia prepares to occupy the first new building on the Manhattanville Campus, the Jerome L. Greene Science Center, new employees are needed. While all are welcome, local, female and minority candidates are strongly encouraged to apply.
EMPLOYMENT INFORMATION AND TRAINING PROGRAMS

Columbia University has an Employment Information Center at 3180 Broadway, just south of 125th Street, that offers a variety of employment services and training programs to help individuals obtain meaningful work at Columbia or elsewhere in the community. The Center is an access point for applying for open positions at the University, as well as receiving job search assistance and participating in training programs.

The public is welcome to visit the Employment Information Center and learn more about employment opportunities at Columbia. During business hours, Monday through Friday, 9 a.m. to 5 p.m., the staff is available to answer questions and share information about construction activity and employment opportunities. Walk-ins are welcome or appointments can be made. The Center offers a 24-hour hotline at 212-851-1551 that provides general information, information about Columbia job opportunities, construction activities, and construction-related job opportunities.

The Center also offers a series of in-person workshops and online training programs. In-person workshops focus on preparing job seekers, and include résumé and cover letter development, interview skills, job search strategies and dressing for success at an interview. Online training topics include communications, business and personal development skills, sales and customer service, leadership, desktop software, and more.

Since 2012, the Columbia Employment Information Center (CEIC) has offered more than 8,600 live and online training sessions and provided hundreds of referrals to external outreach agencies for additional training programs.

To register for an in-person workshop or an online training program, please call 212-851-1551 or visit community-jobs.columbia.edu for more information.

Liz Jones, director of Community Employment Programs and Services, teaches a class on job readiness to community members at the Employment Information Center.
COMMUNITY-PROVIDED JOB TRAINING

Columbia contributes $500,000 ($100,000 a year for five years) to fund a matching program with community-based organizations to provide job training. To date, Columbia has contributed $400,000 to an escrow account with Empire State Development (ESD). Of that $400,000, $261,000 has been awarded to the following programs:

Project: La Marqueta Youthmarket  
Grantee: GrowNYC  
Grant Amount: $61,000  

Summary: During the summer and fall of 2014, GrowNYC operated a “Youthmarket” at La Marqueta in East Harlem (1590 Park Avenue, between 112th and 115th Streets). Youmalertowns are a network of urban farm stands throughout New York City. The program is operated by neighborhood youth and is designed to deliver fresh New York State produce to New York City neighborhoods, resulting in better nutrition and better health for participants. GrowNYC’s Youthmarket job-training focuses on promotion, merchandising and customer service, and offers young people real work experience. Youthmarket provides intense, well-rounded training with exposure to all facets of business operation, including accounting, inventory, and outreach. In 2014, six neighborhood youths and two site supervisors were trained and employed at GrowNYC’s Youthmarket at La Marqueta for eight hours a day, three days a week, from July to November. The $61,000 was used to cover these job-training costs.

Project: 1199/SEIU Career Opportunities in Healthcare (COH) Phase II  
Grantee: Upper Manhattan Empowerment Zone (UMEZ)  
Grant Amount: $100,000  

Summary: In partnership with the 1199 SEIU League and various community partner organizations, UMEZ will provide 75 Upper Manhattan residents with access to entry-level employment and career advancement opportunities with major healthcare institutions. The first phase of the project, which ran from 2008 to 2011, provided unprecedented access to employment opportunities and the prospect of union membership for Upper Manhattan residents. As a result of this investment, healthcare providers including Mount Sinai and NewYork-Presbyterian hired over 100 Upper Manhattan residents.

Project: Apollo Theater Academy  
Grantee: Apollo Theater  
Grant Amount: $100,000  

Summary: In addition to its rich history in furthering the careers of entertainers, the Apollo has a legacy of providing tangible opportunities for technicians, designers and other behind-the-scenes industry professionals. The Apollo Theater Academy advances this legacy through seminars, workshops, internships and events designed to increase knowledge of careers in the performing arts and entertainment fields such as technical stage production and arts management. The Apollo Theater Academy High School Internship Program provides high school seniors with opportunities for personal and professional development as they explore non-performance careers in the arts and entertainment industries. Through hands-on training and career development workshops interns experience a real-world work environment and connect with industry professionals.

MEDICAL TECHNICIAN TRAINING PROGRAM

Established in 1995 by the City University of New York and Columbia University, the Stanley E. Michels Health Careers Scholarship serves to increase the number of residents from Community Districts 9 and 12 who are pursuing careers in health sciences.

The program provides up to $12,500 in financial support for each scholarship recipient to aid in their completion of the New York State requirement of 1,500 hours of unpaid clinical internship as a prerequisite to becoming a certified allied health worker. Columbia University has committed to provide $1 million in grant funds over a ten year period to sustain the program. To date, $600,000 has been paid towards that total.
MINORITY, WOMEN, AND LOCAL CONSTRUCTION CONTRACTING AND WORKFORCE

In addition to the University’s environmental high standards, similar high standards for workforce and contracting became central to the building of the Manahattanville Campus. During CBA negotiations, the University raised the Minority, Women and Local (MWL) goals from 25 percent to 35 percent for construction contracting, and from 35 percent to 40 percent for construction workforce.

While much of the early phase of construction would be steeped in very specialized work, the University set a goal that at least 40 percent of the workforce over the lifetime of the construction project would be composed of MWL unionized workers. Few goals in New York City focus on the workforce composition; however, the University again determined to set a standard of operation that would demonstrate that together, Columbia and the community would benefit from this significant construction project. Additionally, over the lifetime of the project, the goal for minority, women and local contracting spending was set at 35 percent—at the time, the highest goal set in the state of New York.

The commitment limited the goal to non-specialized work, but the University required the construction management firm and sub-contractors to work towards the highest possible goal. Because of the continual push, the specialized work surpassed Columbia’s expectations and has produced results worth reporting on.

A report outlining all non-specialty construction spend and workforce is submitted quarterly to Empire State Development (ESD) and is available to view online at manhattanville.columbia.edu.

Construction Contracting: Cumulatively from August 1, 2008 through June 30, 2016, Columbia paid $132,659,624 to MWL firms for non-specialty construction work, representing 34 percent of non-specialty construction spending, excluding the amount paid to the construction manager. $43,917,858 of that amount was paid to local companies.

Construction Workforce: Cumulatively from August 1, 2008 through June 30, 2016, the MWL construction workforce delivered 1,191,851 hours worked for non-specialty construction work, representing 50 percent of the non-specialty workforce hours for the construction of the new Manhattanville campus. 224,818 hours of that figure were performed by the local workforce.
Below-grade or below-ground-level construction in an urban environment can be particularly difficult. The unique topography within the Manhattanville footprint, including a high groundwater table, the need for deep and narrow excavation, and other conditions, required very specialized approaches and construction techniques, including the building of a slurry wall and the use of “top-down construction” methodology. A slurry wall is a reinforced concrete wall comprising interlocking panels built underground to prevent the flow of groundwater in areas like Manhattanville that have a high groundwater table and might otherwise face flooding. “Top-down” construction enables a building and its sub-basement to be built simultaneously, which allowed for concurrent excavation and steel erection for the Jerome L. Greene Science Center and Lenfest Center for the Arts. Slurry walls are uncommon in New York City for building construction, and after extensive research, only one other area in New York City has used slurry walls with “top-down” construction: the New York Law School in Lower Manhattan.

Few firms had the experience needed with these specialized approaches and techniques for a 21st Century campus built on the type of landscape found in Manhattanville. The Community Benefits Agreement specifically excluded these specialized areas for purposes of Columbia’s MWL goals. However, Columbia still required the contracting firm, wherever possible, to aggressively work toward the same MWL goals of 35 percent for construction trade spending and 40 percent for workforce, regardless of the type of construction work. As a result, in the specialty area, over $91 million was spent with MWL contracting, and nearly half a million hours of construction work were performed by MWL workers for a total, as of June 2016, of $224,269,511 spend with MWL contracting and 1,674,682 million hours of construction work performed by MWL workers.

<table>
<thead>
<tr>
<th>MWL Non-Specialty Contracting Spend</th>
<th>MWL Specialty Contracting Spend</th>
<th>Total Local Contracting Spend</th>
<th>Total MWL Contracting Spend</th>
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<tr>
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<td>$91,609,887*</td>
<td>$56,435,833*</td>
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<tr>
<td>Non-Specialty Workforce Hours</td>
<td>Specialty Workforce Hours</td>
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<td>482,832</td>
<td>280,744</td>
<td>1,674,682</td>
</tr>
</tbody>
</table>

*All spend amounts represented in this table exclude the amount paid to the Construction Manager for the period August 1, 2008 through June 30, 2016.

Using a top-down construction method allowed for the concurrent construction of the Jerome L. Greene Science Center, Lenfest Center for the Arts and the below grade area underneath these buildings that houses a central energy plant. The central energy plant includes a refrigeration plant, high-efficiency dual-fuel-fired (oil and natural gas) boiler plant, normal electric power service from ConEdison, a robust emergency/standby diesel generator plant and associated support, and advanced control systems, which will serve many of the new buildings at Manhattanville.

Construction of a slurry wall begins with excavating deep, narrow trenches along the perimeter of the site that are filled with slurry (a mixture of soil, clay and water) to prevent the trench from collapsing. Reinforcement cages are inserted into the slurry-filled panels and concrete is pumped in to the trench from the bottom up. The rising level of concrete in the panel displaces the slurry and creates a completely reinforced steel and concrete panel.
**Minority, Women and Local Workforce**

Columbia University has a longstanding commitment to the minority, women and local (MWL) construction contracting and workforce community. Whether by establishing purchasing relationships with vendors, entering into consulting agreements for services, or contracting for construction, renovation and repair services, Columbia is committed to enhancing the overall engagement of the MWL community in the construction opportunities presented by the University.

Columbia University has established ambitious goals for construction-related activities throughout the course of the project: MWL construction trade contracting goal of 35 percent and MWL construction trade workforce goal of 40 percent. Working with construction contractors and the building trades, Columbia is working to enhance the role MWL firms and workers play in building the Manhattanville campus.

“Columbia University has been a good partner, and I look forward to building an even stronger relationship with them. The Manhattanville Campus is a long term construction project so we have the opportunity to truly build a great campus and strengthen the community at the same time.”

– Lavon Chambers, Assistant Director, Greater New York LECET, Locals 78 and 79

**A Family Affair**

Stacy Knutt is proud of her construction work on the Manhattanville Campus, her first job in construction after she followed in the footsteps of her father and six of her brothers and became a laborer in Local 79. She joined the Manhattanville crew in 2012 and has been working there ever since.

At Manhattanville, Knutt is a laborer for Lendlease, the construction manager for the first phase of the development, where she is on a team responsible for maintaining a clean and safe worksite.

“Clean construction sites and a safe work environment are basic principles at the Columbia site, and many of my colleagues recognize this as well,” said Knutt as she discussed her experience in Manhattanville. “Working here gives me a real sense of pride. When I first arrived, the site had nothing. Soon, the doors to the first building will be open, and I’ll be able to say that I was a part of it from the start.”

It appears Knutt has passed that appreciation on to another generation. When she took her two teenage sons to see her job site, her older son was so impressed that he went online later that day to learn more about architecture and engineering.
A View of His Back Yard

Nelson Vega always has the best view in the house.

As a painter with the DC 9 Local 18 for more than 10 years, he has worked on high-profile projects throughout New York City, including the Chrysler Building, the Plaza Hotel renovation and Rockefeller Center. But when Vega worked on the Lenfest Center for the Arts, he had a special view—his home and community. “I see people from the neighborhood working at this project, and laborers who live a couple blocks away. Those opportunities are great to see,” he said.

Vega’s painting responsibilities are not what many associate with painting. Vega withstands the elements, painting the exterior steel to cover up the welding and make it look more presentable. For Vega, the best part of the job is being able to admire the beauty of his work when the building is completed. And with the Lenfest Center, that beauty will reside in his back yard.

Respect and Pride

All too common in male-dominated industries are women working twice as hard and getting half the respect of their male counterparts.

For Valerie Adams, and her experience as a carpenter in the Local 157, the hard work has certainly been there. Fortunately, during her time working at Columbia University’s Manhattanville development, her coworkers have recognized her hard work with the respect that it deserves.

According to Adams, a mother of four children, the male colleagues in her immediate circle admire and commend her, giving her added praise for doing her job so well while balancing her responsibilities as a mom.

For Adams, the fit with construction work is a natural. “I love working with my hands, building things and seeing the end product.” She has also felt a special connection with the assignment at Columbia.

“At Columbia, with all of the trades working together, it feels like a big family,” Adams said. “I’m more comfortable here than at sites I’ve worked in the past. Each trade helps one another.”

Her pride for the completed work at Columbia extends beyond seeing a finished building. “Within those walls [of the Jerome L. Greene Science Center], there will be research on the brain and on diseases such as Alzheimer’s that could potentially be life-changing. Knowing that my fellow trades and I built the place where that could happen makes me proud.”

As a neighbor living on 147th Street and 8th Avenue, Adams sees a positive impact from Columbia’s Manhattanville campus and other cultural institutions in the area.

“People from all over the world are being drawn to Harlem and reviving its multicultural legacy. I feel good that I’m helping to rebuild a part of home. And in the future, my kids can look at the campus and say their mom helped build those buildings.”
In June 2009, Columbia University Facilities and Operations formed an MWL Advisory Council to provide advice and guidance on the MWL efforts of the University. The council members had expertise in business development, the MWL field and/or the Upper Manhattan communities. Over the years, their advice and commitment proved invaluable. The council members were particularly helpful in sharing information regarding construction contracting opportunities, recommending people for the mentorship program and participating in the numerous outreach efforts conducted by Columbia.

**MWL Advisory Council**

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**Harlem Business Alliance—Walter Edwards, chairperson**

**Greater Harlem Chamber of Commerce—Lloyd Williams, president/CEO; Patricia Ricketts, vice president**

**New York Women's Chamber of Commerce—Quenia Abreu, president**

**New York State Chapter of the Association of Minority Contractors—Leo Fabio, chairperson**

**Upper Manhattan Empowerment Zone—Ken Knuckles, president/CEO**

**Previous Members:**

**Women Builders Council—Cheryl McKissack, former president and Sandra Wilkin, former president**

**Hispanic Chamber of Commerce—Maria Castro (first two years of the program)**

“I remember when the first beam went in. I was amazed, you know? I’m going to stress that with all these buildings, I know Columbia is going to hire. That’s what we need: jobs. People will put their applications in and find work here. The beams rising is beautiful, but what comes after inspires me more: a community that was down rising up.”

— Victor Sims, Assistant Foreman, Lendlease; Local 79 Laborer

“I’ve got grandkids. They know where their grandfather works. They ride by the building and say, ‘Oh, that’s grandpa’s building.’ So that gives me fulfillment, and I’m just overwhelmed that I’m doing the right thing.”

— Kevin Thomas, Local 79 Laborer

“I just wanted a change. I’ve done a lot of work in my life. I wanted to do something a little more meaningful and this felt like it. Being hands-on with a big project such as Columbia ... I didn’t think I’d get something like this.”

— Candice Elwadi, Dock Builder Apprentice, Local 79 Laborer
DENTAL HEALTH SCREENINGS FOR SENIOR CITIZENS

Columbia University offers dental health, high blood pressure and diabetes screenings to seniors living in the Grant Houses and Manhattanville Houses through ElderSmile at Columbia’s College of Dental Medicine. Experienced dental school faculty, assisted by students, staff the ElderSmile program and offer guidance on oral hygiene instructions, the proper care of dentures, causes and implications of having a dry mouth, causes and implications of having high blood pressure, and symptoms and implications of diabetes. Those who need more in-depth dental care are referred to ElderSmile treatment centers.

Site visits are coordinated in conjunction with the Senior Center and the Dental Services professionals. Since 2012, Columbia’s ElderSmile Program has provided more than 250 free dental screenings to senior citizens from the local community.

For more information on the ElderSmile program, please contact the School of Dental Medicine at 212-305-1045.

DENTAL SERVICES FOR PRESCHOOL CHILDREN

Columbia University offers free dental care for preschool age children from the Manhattanville in West Harlem area through the Mobile Dental Center. The Mobile Dental Center is a program of Columbia University’s College of Dental Medicine Community DentCare Network which aims to reduce dental decay and improve the oral health of northern Manhattan’s underserved children, through comprehensive dental treatment and oral health education.

The Mobile Dental Center offers children, ages three to five, comprehensive dental care including dental exams, cleanings, fluoride treatments, X-rays, oral health education and referrals for free or low-cost health insurance.

Children requiring specialty services are referred to affiliated Columbia University and other community-based dental clinics located throughout Washington Heights, Inwood and Harlem. Columbia’s Mobile Dental Center has provided more than 3,300 free comprehensive dental exams to preschool children since 2012.

“I have been personally thanked by parents who stop me in the streets or contact me just to express their appreciation for the kind, gentle and thorough services their child received. The parents also express their specific appreciation for not having to miss a day of work to take a child to a private dental office. As the Director of the MDC, I take personal pride in the services we are providing to the community but more importantly in feedback and acknowledgments we receive from the children and the parents.”

— Elvin Alvarez, Director, Mobile Dental Center (MDC)
ATHLETICS CLINICS

Columbia University sponsors and participates in seasonal sports clinics for local community children throughout the year. The clinics are run by Columbia University coaches and include sports such as golf, basketball, tennis, soccer and swimming. There is a fee associated with the clinics.

Please visit www.dodgefitnesscenter.com for more information on available clinics and pricing information.
WEST HARLEM PIERS PARK

The West Harlem Piers Park project transformed a parking lot between 125th and 135th streets into an attractive and accessible waterfront amenity. The two-acre park, which opened in 2009, connects West Harlem to the Hudson River greenway, and features a docking pier, a fishing pier, bicycle and pedestrian paths and landscaped open space.

The park also offers the public a broad mix of programs free of charge, including Zumba, fishing, concerts, dance performances, children’s art and entertainment, and more, for audiences of all ages.

Columbia University is proud to provide funding for staff and enhanced services for West Harlem Piers Park through the City’s Department of Parks and Recreation. To date, nearly $4 million has been provided.

For more information about the park, please visit: www.nycgovparks.org/parks/west-harlempiers
Since 2009, Columbia University has provided free shuttle service to seniors, those with disabilities, and their attendants and/or service animals. The shuttles run on a regular schedule between the hours of 9 a.m. and 5 p.m., Monday through Friday, except on State and Federal public holidays.

The shuttle service is meant to complement, not replace, existing MTA service, and makes stops at 96th Street and Broadway, 116th Street and Broadway, 125th Street and Broadway, Columbia University Medical Center at 168th Street, and Harlem Hospital Center. Senior citizens and disabled passengers can display either their Access-A-Ride card, Medicare card or Senior MetroCard in order to gain access to the service.

Community Board 9 worked with Columbia representatives to develop the Shuttle Service Guide and enhance the service.

*The shuttle bus schedule can be found at transportation.columbia.edu/community*

In connection with the Manhattanville project, Columbia University currently provides funding to Manhattan Legal Services, a member of the Legal Services NYC network, for two attorneys to assist residents of the Manhattanville area needing anti-eviction/anti-harassment legal services.

These services include, but are not limited to providing guidance on: filling out applications for Senior Citizen Rent Increase Exemptions and rent subsidy programs, completing lease renewals, getting repairs for apartments and starting succession planning regarding tenancies.

"Thanks to this program in partnership with Columbia, we are able to be on the ground in the community when issues come up, and are able to detect any systemic patterns going on in our community where we should be addressing the most systemic bases," said Peggy Earisman, director at Manhattan Legal Services.

The organization also represents clients who are facing eviction in housing court by doing factual and legal research, filing motions, negotiating settlements and trying cases if necessary to preserve affordable housing in the community and prevent eviction of tenants. The University will continue to provide funding for these two attorneys to serve Manhattanville residents needing housing legal services through 2030.

"If you think that there is something that could become a problem or issue, don’t wait. Come talk to us," said Earisman. “The beauty of this particular project is that we have the luxury to begin to address concerns before they become problems. We can also help with other legal services, including: public assistance, family law, disability, unemployment benefit and other civil cases, and more.”

*If you need legal assistance with a landlord/tenant issue and live in the Manhattanville area, contact Manhattan Legal Services at 212-348-7449 or visit its local office at 1 West 125th Street (125th Street and Fifth Avenue). The organization also provides housing legal services twice monthly at the Community Board 9 offices, located at 18 Old Broadway.*
Columbia University has a long and proud history of community engagement. Through the Office of Government and Community Affairs, the University meets with the West Harlem Development Corporation, Community Board 9 and elected officials providing updates on the progress of the Manhattanville Campus. Additionally, our students, faculty and administrators collaborate on many projects and activities beyond the CBA and Declaration. Following are a few examples of other ways the University partners with the local community.

**Columbia Community Impact**

Columbia Community Impact (CI) creates opportunities for nearly one thousand University students, along with faculty and administration, to volunteer with 25 community service programs, ranging from youth education to homelessness assistance.

Through partnerships with more than one hundred community organizations and agencies, Community Impact at Columbia University serves more than 8,000 people each year providing food, clothing, shelter, education, job training and companionship for local residents.

Community Impact fosters meaningful opportunities for students, staff and faculty of Columbia University to provide high-quality programs for the community and instills the importance of lifelong service.

*For more information, please visit: communityimpact.columbia.edu*

**Columbia Community Service**

Being a good neighbor by assisting local nonprofit organizations is an important part of Columbia’s mission. Columbia Community Service (CCS) is one of the oldest organizations on campus—a fund generated by donations from employees of Columbia, Barnard and Teachers College, that supports more than 50 local nonprofit organizations serving the Upper Manhattan community. From music schools to food pantries, from day care to senior services, from education to health and wellness programs, CCS provides ongoing support to a broad range of organizations. With the University covering all administrative expenses, 100 percent of the contributions goes directly to services.

*For more information, please visit: communityservice.columbia.edu*
Columbia Double Discovery Center

The Double Discovery Center (DDC) of Columbia College was founded in 1965 by a group of Columbia students, alumni and faculty to engage the Harlem community and promote a mutual understanding between the campus and its neighbors in northern Manhattan.

Its two federally funded programs, Upward Bound and Talent Search, target students at risk of not completing high school or entering college, offering them academic, career, college, financial aid and personal development services year-round with the goal of increasing the rate of high school graduation, college entrance and college completion.

Upward Bound offers assistance to nearly 200 high school students both year-round and through a six-week summer residential academic program on campus. Talent Search serves students in grades 7 to 12 with after-school programs and weekend field trips during the regular academic year and with full time programming over the summer. Annually, 90 percent of high school seniors participating in Double Discovery graduate from high school on time and enter college the following fall semester, far surpassing city, state and national outcomes from low-income, first-generation college and minority students.

For more information, please visit: ddc.college.columbia.edu

Columbia Community Partnership for Health

The Columbia Community Partnership for Health is an initiative of the Irving Institute for Clinical and Translational Research, Columbia University Medical Center and NewYork-Presbyterian Hospital, serving as a resource to the community for health information in an effort to address the challenges of inadequate health literacy—a major public health challenge. The Center provides a bilingual health information library for community use, computers with free Internet access to health-related information, interview/exam rooms for research purposes and a conference room for health promotion and disease prevention lectures, forums, discussions and other related events. The Center is open to all community residents, free of charge.

For more information, please visit: irvinginstitute.columbia.edu/resources/community_engage

Meet Destiny

Columbia’s Freedom and Citizenship Program, a collaboration of the Roger Lehecka Double Discovery Center and the Center for American Studies, encourages students to consider studying humanities.

Since 2009, the year-long program has invited rising high school seniors to live on campus during the summer and take an abridged version of the Core Curriculum.

Destiny DeLeon, who has brittle bone disease that requires her to use a wheelchair, expects to be the first in her family to go to college. She was just one of 45 students who had the opportunity to learn from faculty such as historian Eric Foner and linguist John McWhorter this summer. She will continue her studies in the program this fall.
Serving as the Construction Management firm on the Manhattanville Campus, Lendlease not only embraced the lofty ideals of clean construction, safety first and MWL contracting and workforce, but the leadership of Lendlease also called on its Foundation to annually participate in a community service initiative in the local area. Columbia’s Facilities and Operations joined with the Lendlease Foundation to clean several community gardens, paint park benches and help improve a community center as yet another commitment to the surrounding community.

“Our children and families in this community need this garden, and Columbia and its partners have given it a great makeover. My words cannot fully express how I feel. We are all working together to help each other make this neighborhood someplace we can be proud of—getting new fences, painting the benches and preparing this garden for next year’s harvest. None of this would have been possible without their help.”

– Jenny Benitez, Founder of Riverside Valley Community Garden, also known as Jenny’s Garden

Above: Dr. Vicky Gholson reviews the overall project scope for the senior citizen garden at 152nd Street next to the Wilson Major Morris Community Center and across the street from the Dance Theatre of Harlem. More than 60 Lendlease, Columbia University and MWL Mentorship firm volunteers participated. Dr. Gholson passed away on October 14, 2014.
“The founder of Lendlease started his business doing community outreach. Giving back to the community was incredibly important to him, and that’s part of what he insisted upon as the company went forward. He even created an endowment, a big part of which goes back to the communities we work in. So, one week out of the year we have something called Community Week, which our employees are encouraged to participate in, and we tend to gravitate toward the places that we’re working. Because we’ve been at Columbia for so long, every year we pick a favorite, and that started with Jenny’s Garden.”

– Ralph Esposito, President, Lendlease

Above: Victor and Jenny Benitez at Jenny’s Garden, also known as Riverside Park Community Garden. Victor Benitez passed away April 22, 2016.
SECTION NINE: HISTORY RETAINED

On April 4, 2016 an Interpretive Exhibit called Manhattanville: A New York Nexus opened to the public. Housed temporarily in the Nash Building at 560 West 133rd Street, the exhibit tells the story of Sheffield Farms, the milk industry and the public good.

Columbia University’s new Jerome L. Greene Science Center in Manhattanville occupies land that, in the early part of the 20th Century, was owned by Sheffield Farms, a historic private commercial endeavor that successfully addressed one of the most critical health issues of that time: the challenge of supplying healthy milk to expanding urban populations increasingly distant from rural dairy farms. The rich history includes partnerships between Columbia University and the local community to save the lives of countless infants dying from tainted milk—an effort that provided one of the most poignant messages to tie into the future of Manhattanville.

The public health mission in the previous century will be reprised—albeit on different terms—by the Zuckerman Institute in this new century. Keeping the history of togetherness in mind, Manhattanville: A New York Nexus urges viewers to look forward with great anticipation as Manhattanville, steeped in history, looks to the future.
Growing Together

There is a history in Harlem of women activists taking a major role in protecting children’s health. And we have the example of the International Pure Milk League that was founded by women right here in the neighborhood. We also have the example of child labor reform. And now we have an even greater focus on children who bear most of the impact both of toxic chemicals and also of climate change. So women have had a very important role.”

— Dr. Frederica Perera, Director of the Columbia Center for Children’s Environmental Health

Demographics in Manhattanville

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Population</th>
<th>European Immigrant</th>
<th>People of Color*</th>
<th>U.S. Born White</th>
</tr>
</thead>
<tbody>
<tr>
<td>1910</td>
<td>14,597</td>
<td>14,597</td>
<td>691</td>
<td>7,095</td>
</tr>
<tr>
<td>1920</td>
<td>17,945</td>
<td>17,945</td>
<td>636</td>
<td>8,060</td>
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<tr>
<td>1930</td>
<td>9,822</td>
<td>9,822</td>
<td>6,606</td>
<td>6,130</td>
</tr>
<tr>
<td>1940</td>
<td>11,788</td>
<td>11,788</td>
<td>6,968</td>
<td>5,436</td>
</tr>
</tbody>
</table>

* People of Color includes native-born and immigrant persons who self-identify as having racial or ethnic heritage from Africa, Asia, Caribbean or other non-European places or origins. Data obtained from the U.S. Census.

At the turn of the 20th Century, Manhattanville’s industrial base was diverse and thriving.
ACKNOWLEDGEMENTS

As the University moves forward with dedicating the Manhattanville campus and with the first of the new buildings opening, it is important to acknowledge the many community leaders, former and current Columbia employees and Upper Manhattan elected officials, too numerous to list here, who were and continue to be essential to the envisioning, design, construction and operation of our new campus.
From the beginning, our goal was to grow together, and thanks to their commitment, we are.
AN ACADEMIC CAMPUS BUILT FOR URBAN LIFE

A The Jerome L. Greene Science Center, designed by Renzo Piano Building Workshop with Davis Brody Bond as executive architect, will be home to Columbia’s Mortimer B. Zuckerman Mind Brain Behavior Institute. In addition to state-of-the-art research and teaching facilities, the ground floor of the Greene Science Center will house retail space, the Wellness Center, and the Education Lab, offering a variety of programs on the brain, mental health, and neuroscience for K-12 students, teachers, and the community.

B The Lenfest Center for the Arts, also designed by Renzo Piano Building Workshop with Davis Brody Bond as executive architect, will not only provide a showcase for the creative work of Columbia artists in film, theatre, visual arts, and writing, it will be a venue for deepening partnerships between the School of the Arts and Harlem’s vibrant cultural community. The center will be the new home of the Miriam and Ira B. Wallach Gallery—now located on the Morningside campus—for the first time allowing easy public access to the gallery.

C Columbia Business School will move to the Henry R. Kravis Building and the Ronald O. Perelman Center for Business Innovation. The location of these innovative buildings, designed by New York architects Diller Scofidio + Renfro in collaboration with FXFOWLE, will facilitate the business school’s engagement in economic development and entrepreneurship in Upper Manhattan.

D The University Forum is a multi-purpose venue, designed by Renzo Piano Building Workshop with Dattner Architects as executive architect, that will provide a gateway between campus and community. It will include a 430-seat auditorium, meeting rooms, and University offices.

E Publicly accessible open spaces are central to Columbia’s environmentally sustainable campus plan. Pedestrian-friendly streets—all of which will remain open—will provide a mix of local dining and shopping along welcoming pathways to a revitalized Hudson River waterfront.

F Prentis Hall, a one-time milk processing plant from Manhattanville’s industrial era, houses Columbia’s Center for Jazz Studies, Computer Music Center, and studios for the School of the Arts. The building next to it at 560 Riverside Drive is faculty and graduate student housing that will have a new lobby along a vibrant 125th Street.

G The Studebaker Building, once the site of an auto-manufacturing facility, received a LEED Silver award from the U.S. Green Building Council for Columbia’s renovation, which created environmentally sustainable spaces for University administration.
Growing Together was produced by Columbia University Facilities and Operations. For more information, email projx@columbia.edu or visit manhattanville.columbia.edu