



ALEXANDRIA.

Hon. Kevin C. Riley, Chair
Subcommittee on Zoning and Franchises
New York City Council
250 Broadway
New York, NY 10007

January 8, 2025

**RE: SPARC Kips Bay
Borough of Manhattan, Community District 6, Council District 4
ULURP Numbers: C240370ZSM; C240390ZSM; C240369ZMM; C240309MMM;
C240391PQM; C240372PPM; and N240371ZRM
CEQR Number: 23DME013M**

Dear Chair Riley:

Alexandria Real Estate Equities, Inc. (“Alexandria”) submits this letter to the New York City Council (“Council”) to state our continued questions and concerns about the New York City Economic Development Corporation’s (“EDC”) proposed SPARC Kips Bay project (“SPARC”) following the City Planning Commission’s (“CPC”) approval on December 16, 2024. As described in this letter, deficiencies and omissions in the air quality, noise, water and sewer, energy and shadows analyses indicate that the Lead Agency did not analyze the scenario with the worst environmental consequences, the Reasonable Worst Case Development Scenario (“RWCDs”), in the Final Environmental Impact Statement (“FEIS”), as is required by the CEQR Technical Manual. The FEIS did not analyze any area of the special permit laboratory use requested pursuant to Zoning Resolution (“ZR”) Section 74-171 and, shockingly, any area of the laboratory use that would be made as-of-right by the proposed rezoning from an R8 zoning district to a C6-4 zoning district. These deficiencies warrant disapproval of the entire SPARC project on the basis of an incomplete and improper environmental review.

Alexandria submitted a letter to the CPC and the Mayor’s Office of Environmental Coordination (“MOEC”) on November 6, 2024, raising concerns with the proposed laboratory use special permit and identifying a number of technical defects in the land use and environmental materials. As you know, no area of laboratory use is currently allowed as-of-right since the site is zoned R8, which does not allow any commercial uses. As described in Alexandria’s November 6 letter, EDC’s proposed rezoning to a C6-4 zoning district would allow the full 1,000,000 square feet of proposed laboratory area to be used for non-production functions and entirely as-of-right; the laboratory use special permit, as proposed by EDC, sought the flexibility to use upwards of that full 1,000,000 square feet of laboratory area for manufacturing (production) uses, but the FEIS



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did not analyze the impacts of the full use of that 1,000,000 square feet of laboratory space. As such, the RWCDs presented in the FEIS did not capture the upper range of development of what is reasonably expected to occur, a basic requirement of the CEQR Technical Manual.

1. The CPC erred and should have reduced the area of the laboratory use special permit from 1,000,000 square feet to 32,000 square feet, consistent with the FEIS.

In responding to Alexandria's November 6 comments, MOEC admitted that the Draft EIS ("DEIS") did not analyze any area of production laboratory use, and that only a production facility of up to 32,000 square feet (not 1,000,000 square feet) would be within the scope of the environmental review. However, a production facility of 32,000 square feet does not represent the scenario with the worst environmental consequences, which is a violation of the normal CEQR process. Additionally, the drawings from the CPC's approval (dated December 11, 2024) do not specify that only 32,000 square feet (or the equivalent area in zoning square feet) would be permitted to be used for production functions, nor did the CPC modify the application to reduce the scope from 1,000,000 square feet to 32,000 square feet. Should the Council choose to approve the laboratory use special permit after considering the other comments in this letter, this fatal flaw error must be remedied, and the Council must modify the application to reduce the scope to 32,000 square feet (or the equivalent area in zoning square feet).

2. The FEIS did not perform any air quality analysis of the as-of-right and special permit laboratory uses.

Section 220 of Chapter 17 (Air Quality) of the CEQR Technical Manual states that projects that would include medical, chemical or research labs, and projects that would include operation of manufacturing or processing facilities require an analysis of potential stationary source air quality impacts. Despite this clear requirement, the stationary source analyses for both the as-of-right (non-production) and special permit (production) laboratory uses are absent from the Air Quality chapters of both the DEIS and FEIS. That analysis is not optional. We remind the Council that no laboratory use is currently allowed as-of-right since the site is zoned R8, which does not allow any commercial uses, and rezoning to C6-4 "unlocks" the as-of-right laboratory use. Given the absence of the requisite stationary source analysis, the potential air quality impacts of no area of laboratory use (whether as-of-right or special permit) were studied; as such, the entire project must be disapproved on the basis of an incomplete environmental review.

Additionally, Section 322.2 of the Air Quality chapter of the CEQR Technical Manual requires a chemical spill analysis for laboratories to disclose the potential impacts on the surrounding community in the event of an accidental emission of air toxics because of a chemical spill. Alexandria's November 6 letter noted that the analysis in the DEIS improperly assumed the



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quantities and types of chemicals for a non-production laboratory, despite the requested use special permit seeking approval to exceed those maximum quantities. The FEIS, despite acknowledging Alexandria's comment, doubled down on the assumption that the quantities and types of chemicals in a non-production laboratory would represent those that would likely be used in the 32,000 square feet of production laboratory. This is illogical and ignores the very purpose of the laboratory use special permit. Further, the FEIS goes on to state that potential air toxic emissions from a production laboratory would be subject to NYC Department of Environmental Protection permitting. To rely on a future agency review, and thus avoiding doing the analysis required by the CEQR Technical Manual, is improper and a violation of normal CEQR processes. The Lead Agency had an obligation to study and disclose the potential impacts resulting from a chemical spill in the FEIS, even if the types and quantities of chemicals used for the analysis are conceptual given that no user has been identified. The inadequacy of the chemical spill analysis further supports the conclusion that the air quality analysis of the FEIS is incomplete and provides additional support for disapproval of the laboratory use special permit *at a minimum*.

The need for a proper chemical spill analysis for a production laboratory is heightened given the persistent threat that laboratories face that a bad actor could cause a deliberate spill or release of chemicals, toxic gases, or pathogens that could cause significant harm to the surrounding community. The concern is even further heightened given the persistent safety and security issues posed by the nearby 30th Street Men's Shelter where there are documented instances where individuals have threatened to, or have, caused serious harm to human life. The potential effects to the surrounding community due to a chemical spill, whether accidental or intentional, need to be disclosed through a proper chemical spill analysis.

3. The FEIS did not include any assessment of the potential noise impacts caused by the proposed special permit laboratory use.

Section 220 of Chapter 19 (Noise) of the CEQR Technical Manual states that a manufacturing activity is considered a substantial stationary source, and if operating within 1,500 feet of, and have a direct line of sight to, a receptor, a detailed analysis is warranted. However, the FEIS did not even acknowledge that the proposed production laboratory – a manufacturing use – is a substantial stationary source despite the CEQR Technical Manual stating otherwise. Therefore, the FEIS did not assess the reasonable worst case development scenario for potential noise impacts resulting from the proposed production laboratory; the inadequacy of the noise analysis provides even more support for disapproval of the laboratory use special permit.



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4. The FEIS did not properly study the water and sewer impacts of the as-of-right and special permit laboratory uses.

In response to a comment in Alexandria's November 6 letter that the water consumption assumption for the as-of-right laboratory is too low given the unique operational characteristics of the laboratory use, and that the potential water and sewer impacts of the production laboratories were not studied, the FEIS referenced figures from the US Environmental Protection Agency ("EPA") to establish a water consumption assumption for the 32,000 square feet of production laboratory of five times that of retail use, but did not change the assumption for the remaining 968,000 square feet of as-of-right (non-production) laboratory area. The EPA reference, however, makes no mention of water consumption rates for production laboratories; it instead notes that research laboratories can use five times as much water as other commercial buildings of similar size. Further, it is generally understood that hospitals use more water than standard offices for medical procedures and specialized equipment, yet the Lead Agency continued to apply office water consumption rates to the ambulatory care area of the SPARC project in the FEIS. The FEIS should have increased the as-of-right laboratory and ambulatory care water consumption assumptions, consistent with the EPA reference, and therefore does not represent the reasonable worst case development scenario by improperly underestimating the potential water and sewer infrastructure impacts of the as-of-right laboratory and ambulatory care uses.

Regarding the water and sewer analysis for the production laboratory, Section 322.3 of Chapter 13 (Water and Sewer Infrastructure) of the CEQR Technical Manual sets forth guidelines for performing a preliminary analysis for industrial facilities, which involves identifying the pollutants that would discharge from the proposed facility and disclosing how the facility would comply with the discharge limits set by the City's Industrial Pretreatment Program. Yet it does not appear that any attempt to perform this requisite analysis was made.

5. The FEIS did not perform any assessment of the project's consumption of energy and any impacts it could have on the transmission of energy.

Section 200 of Chapter 15 (Energy) of the CEQR Technical Manual requires that, at a minimum, "it is recommended that the projected amount of energy consumption during long-term operation be disclosed in the environmental assessment." No such disclosure was made in the DEIS or the FEIS. As noted in Alexandria's November 6 letter, nationally, laboratory energy intensity is 2.73 times that of office use; given the significant amount of laboratory area proposed for the SPARC site (1,000,000 square feet), energy use will undoubtedly be high. Even if there ultimately is no potential for impacts, the Lead Agency had an obligation to analyze the scenario with the worst



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environmental consequences and disclose the projected amount of energy consumption in the FEIS.

6. The Shadows analysis is still deficient and did not study the potential impacts to the future open spaces at the Alexandria Center fully.

Alexandria's November 6 letter noted that the Shadows analysis did not study the potential impacts to the new open spaces around the future Alexandria Center for Life Science ("ACLS") North Tower, which is identified as a No-Action project. While the FEIS attempted to update the open space configuration, it still did not represent the full extent of open space that will be required by the 2001 approvals for ACLS project. Due to this omission, it cannot be definitively determined if the incremental shadows caused by the SPARC project would or would not result in a significant adverse impact on the future ACLS North Tower open spaces; the Shadows analysis is therefore incomplete.

CONCLUSION

The SPARC project is an ambitious attempt by the City and State of New York "to create an educational pipeline from NYC schools into the life sciences and healthcare industries [that] is pivotal for the future of New York's economy and the economic mobility of its residents." However, the environmental review necessary for the project to be realized did not perform many of the analyses expressly required by law and in some instances, including those described above, used improper assumptions to avoid analyzing the scenario with the worst environmental consequences. The environmental review is patently incomplete, and, as such, there was no basis for the CPC to find that "the requirements of the New York State Environmental Quality Review Act and Regulations have been met" when it approved the project. The Council, too, cannot make that finding, and therefore has no other option but to disapprove the project in its entirety on the basis of an incomplete and improper environmental review.



ALEXANDRIA.

CC: Hon. Shaun Abreu, Council Member
Hon. Yusef Salaam, Council Member
Hon. Francisco Moya, Council Member
Hon. Lynn Schulman, Council Member
Hon. Kamillah Hanks, Council Member
Hon. David Carr, Council Member
Hon. Keith Powers, Council Member
Perris Straughter, Director, City Council Land Use Division
Hilary Semel, Esq., Director and General Counsel, MOEC
Esther Brunner, Deputy Director, MOEC
Daniel Garodnick, Chair, City Planning Commission
Susan Amron, Esq., Counsel, DCP

From: [Annalise Schweickart](#)
To: [Land Use Testimony](#)
Subject: [EXTERNAL] SPARC Written Testimony
Date: Thursday, January 9, 2025 11:12:13 AM

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Hello there,

I am emailing to submit my written testimony to support the SPARC project.

By way of introduction, my name is Annalise Schweickart and I am a medical researcher at Weill Cornell Medicine. During my PhD, I was lucky enough to participate in the NYCEDC's LifeSci NYC Internship program in the summer of 2022 when I lived in the CB6 district.

I consider that internship experience a pivotal moment in my career in the life sciences, as it introduced me to the wonderful life sciences network here in NYC and made me a better researcher and scientist. I also was given the amazing opportunity to host a CUNY student as a mentor through the LifeSci NYC internship program, and she was a rockstar. I feel strongly that her work with me boosted her resume and will help her break into the life sciences industry when she finishes her degree.

Having gone through the program, both as intern and mentor, I saw how important it is to build pipelines from the wonderful academic institutions we have in the city into industry, a realization further bolstered by the frustration of my PhD peers who want to stay in this wonderful city but are struggling to find competitive life sciences jobs post-graduation. Because of this, I was super excited to see the plan for the SPARC Kips Bay Campus. This campus bringing together life sciences education and industry will help students access and contribute to some important and exciting innovation happening in the industry. I fully support the SPARC project and hope the project is approved!

Thanks,
Annalise Schweickart, PhD

Weill Cornell Medicine
Institute of Computational Biomedicine
1305 York Ave
New York, NY 10022

January 9, 2025

Testimony of Dr. Andrew B. Wallach, Ambulatory Care Chief Medical Officer at NYC Health + Hospitals, to the Subcommittee on Zoning and Franchises

Good morning to the Subcommittee on Zoning and Franchises, and thank you Chair Riley for holding this important hearing today. My name is Dr. Andrew Wallach and I am the Ambulatory Care Chief at Bellevue and the NYC Health + Hospitals Ambulatory Chief Medical Officer.

Bellevue is most excited about its participation in SPARC Kips Bay! A groundbreaking initiative that will allow for our much-needed ambulatory expansion. And, of the many lessons learned from the recent COVID-19 pandemic, perhaps one of the most important is the need for each New Yorker to have a primary care provider; this expansion will help us achieve that goal.

Specifically, the new space will allow NYC Health + Hospitals/Bellevue to further expand its primary care, prevention and wellness services for its ambulatory patients and decrease wait-times for appointments- by up to an anticipated seven days. Importantly, the ground floor space will allow for an outpatient pharmacy to serve our patients and the community as well as host a healthy concessions vendor. And, by having primary care vacate its current space in the existing Bellevue Ambulatory Care building on First Avenue and 27th Street, it will also allow for the much-needed expansion of our outpatient specialty services (e.g. Cardiology, Neurology, Orthopedic surgery, etc.) in the old building.

Bellevue has a strong history of commitment to serving all New Yorkers. In order to do so, we train and maintain a diverse and skilled workforce which reflects the patients to whom we provide care. Being a part of SPARC Kips Bay will help us to continue that training in the Simulation Center which will serve not only Bellevue but our entire NYC Health + Hospitals system. Our presence at SPARC Kips Bay will also help solidify relationships with the Department of Education and CUNY and create pipelines of future staff to work in our System.

Thank you again for holding this hearing and I am happy to answer any questions you may have about Bellevue's vision for the project.



BUILDING & CONSTRUCTION TRADES COUNCIL OF GREATER NEW YORK

GARY LaBARBERA
PRESIDENT

AFFILIATED WITH THE
BUILDING CONSTRUCTION TRADES DEPARTMENT
OF WASHINGTON, DC



NYS BUILDING AND CONSTRUCTION TRADES COUNCIL

AMERICAN FEDERATION OF LABOR AND CONGRESS
OF INDUSTRIAL ORGANIZATIONS

TESTIMONY

On behalf

BUILDING AND CONSTRUCTION TRADES COUNCIL OF GREATER NEW YORK AND VICINITY

In Support of the Science Park and Research Campus Project

January 9, 2024

Good afternoon, members of the Subcommittee. My name is Santos Rodriguez, and I am here today on behalf of Gary LaBarbera, President of the Building and Construction Trades Council of Greater New York & Vicinity ("BCTC"), to express our strong support for the Science Park and Research Campus (SPARC) Project in Kips Bay.

The BCTC is an organization of local building and construction trade unions that are affiliated with 15 International Unions in the North American Building Trades Union. Our local union affiliates represent approximately 100,000 union construction workers. The BCTC's mission is to raise the standard of living for all workers, to advocate for safe work conditions and to collectively advance working conditions for our affiliates' members, as well as all workers in New York City.

We believe the SPARC Project represents the principles of innovation, economic development, and community enhancement. This transformative initiative will establish a state-of-the-art life sciences, healthcare, and public health hub in the Kips Bay neighborhood, revitalizing 2 million square feet of space. By positioning New York City as a leader in the life sciences sector, SPARC will not only drive scientific advancement but also foster sustainable economic growth in the region.

A critical aspect of this project is its commitment to creating thousands of union jobs. The City and the Economic Development Corporation (EDC) have ensured these opportunities will be accessible to skilled union workers, which aligns with our mission to promote middle-class careers that support families and communities.

Furthermore, we commend the project's engagement with the local community, particularly through the SPARC Community Task Force. This inclusive approach ensures that the voices of Kips Bay residents are heard and that the project's benefits will extend to those who live and work in the area.

The BCTC supports projects like SPARC that align with our shared vision of improving the lives of New Yorkers, fostering economic opportunity, and enhancing the

city's infrastructure. We urge the Subcommittee to approve this vital initiative, which will undoubtedly bring lasting benefits to Kips Bay and beyond.

Thank you for the opportunity to provide this testimony. We look forward to collaborating to bring this project to fruition.

Testimony from New York City Public Schools in association with the January 9 2025 hearing by the Subcommittee on Zoning and Franchises for SPARC Kips Bay, Manhattan (LU 0221-2025)

Good morning Chair Riley, Council Member Powers, and members of the subcommittee on Zoning and Franchises

On behalf of Chancellor Aviles Ramos and the New York City Public Schools, thank you for the opportunity to testify on our proposed vision for the educational facility at the Science Park and Research Campus development in Kips Bay. My name is Isha Sheth and I serve as the Senior Director for Innovation and Infrastructure at the Office of Student Pathways.

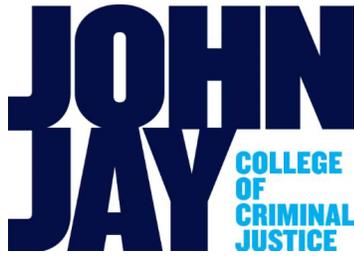
The Office of Student Pathways at New York City Public Schools is charged with the goal of ensuring we are building effective college and career pathways for equity, impact and scale so that all our students graduate with real skills, a head start and a strong future plan. Our plan for the educational facility at SPARC is grounded in the Bold Futures vision of New York City Public Schools, *that every New York City public school student is prepared and on a path to a rewarding career aligned with their passion and offering long-term economic security and a choice-filled life.*

The SPARC campus will include a HS educational facility offering health and life sciences pathways. The close proximity of both higher education and employer partners in a common field at SPARC will allow us to deliver key innovations in programming such as

- Providing students opportunities to earn employer validated high school and college credits and credentials in specific market career pathways such as nursing, diagnostic medicine, cybersecurity, data science etc.
- Providing student and teachers access to industry-led co-teaching.

We would also implement additional evidence-based strategies to enhance student awareness and preparation for careers in healthcare and life sciences such as personalized advising and a sequence of work-based learning including internships and apprenticeships.

To conclude, from a systems change perspective, this campus gives us a truly unique opportunity to boldly transform where and how learning takes place. We thank you again for this opportunity to testify.



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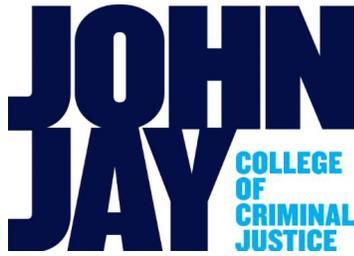
Comments on SPARC Kips Bay

I am thrilled to extend my enthusiastic endorsement of the SPARC Kips Bay initiative, particularly in regard to the forthcoming Office of Chief Medical Examiner (OCME)-Forensic Pathology Center and the toxicology and pathology laboratories. I am Marta Concheiro-Guisan, serving as the Director of the Masters in Forensic Sciences Program at John Jay College of Criminal Justice.

Established in 1968, our forensic sciences program proudly holds the distinction of being the longest-standing academic program of its kind in the nation. We recognize and deeply value the significance of fostering a seamless and direct partnership with the professional laboratories within our region. This blend of academic instruction and exposure to real-world professional environments is indispensable for cultivating optimal educational settings to nurture the future workforce.

Over the years, we have cultivated a close partnership with the DNA and Toxicology laboratories at NYC-OCME. Numerous students have completed internships at this institution and embarked on research projects at both undergraduate and graduate levels. At the graduate level, students have delved into research endeavors culminating in the presentation of master theses and the authorship of scientific publications. These experiences have significantly enriched our program and profoundly impacted our students' educational journeys. They have had the privilege of working within a prestigious institution of national and international renown, developing critical laboratory skills and gaining insight into forensic laboratory workflows. The OCME toxicology laboratory has emerged as a vital component in our students' education.

John Jay College, as a Minority Serving Institution, is dedicated to enhancing diversity in STEM fields, with a particular focus on forensic sciences. The unparalleled benefits our students derive from our collaboration with OCME laboratories are unmatched nationwide. Many John Jay alumni are currently employed at OCME, fostering a welcoming and supportive environment for our students.



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The building of a new toxicology laboratories will further strengthen and perpetuate this collaboration, offering an advanced educational environment equipped with state-of-the-art facilities. Education in forensic sciences within such enhanced facilities is paramount to ensuring students receive top-tier training, have access to cutting-edge technologies and methodologies, and are thoroughly prepared for successful careers in forensic science.

The SPARC Kips Bay project will undoubtedly have an unparalleled impact on the field of forensic sciences, which is imperative for the advancement of this crucial discipline, not only in New York City but throughout the entire nation.

A handwritten signature in black ink, appearing to read "Marta Concheiro-Guisan". The signature is stylized with a large, circular flourish at the end.

Affiliations

INTERNATIONAL ASSOCIATION OF BRIDGE, STRUCTURAL,
ORNAMENTAL AND REINFORCING IRON WORKERS
AFL-CIO
BUILDING TRADES DEPARTMENT OF AFL-CIO
THE NEW YORK STATE IRONWORKERS DISTRICT COUNCIL
THE BUILDING AND CONSTRUCTION TRADES COUNCIL
OF GREATER NEW YORK
THE NEW YORK CITY CENTRAL LABOR COUNCIL
THE NASSAU AND SUFFOLK COUNTY
BUILDING TRADES COUNCIL
THE WESTCHESTER COUNTY BUILDING
TRADES COUNCIL
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THE QUEENS BOARD OF BUSINESS AGENTS
THE STATEN ISLAND BOARD OF BUSINESS AGENTS
THE CONCRETE TRADES ALLIANCE

LOCAL 46 METALLIC LATHERS UNION AND REINFORCING IRONWORKERS New York City and Vicinity

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JOSE P. DIAZ, JR.



TESTIMONY

On behalf

The Metallic Lathers and the Reinforcing Ironworkers Local 46

In Support of the Science Park and Research Campus Project

January 7, 2025

I am submitting my testify on behalf of the Metallic Lathers and Reinforcing Ironworkers, in support of the Science Park and Research Campus Project in Kips Bay ("SPARC").

Local 46 is one of the organizations in the building and construction trade unions that are affiliated with the North American Building Trades Union. Our local union is part of union affiliates of approximately 100,000 union construction workers. Local 46's mission is to raise the standard of living for all workers, to advocate for safe work conditions and to collectively advance working conditions for our affiliates' members, as well as all workers in New York City.

We are excited to work on SPARC as it is an innovative project that will provide a myriad of benefits to the community, our members, and the City. SPARC will bring a state-of-the-art life sciences, healthcare, and public health hub to the Kips Bay neighborhood. It will update 2 million square feet of space and will elevate New York City as a leader in life sciences, with Kips Bay at the center of its growth. Additionally, this project will create thousands of jobs, which the City and EDC have committed to being Union jobs.

This project will benefit the Kips Bay community and our City as a whole. The Metallic Lathers & Reinforcing Ironworkers Local 46 supports projects like the Science Park and Research Campus Project in Kips Bay project that will improve the lives of many New Yorkers and create middle class jobs for our members in the process.

We thank you again for this opportunity to testify in support of this project.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Anderson". The signature is written in a cursive style with a large initial "M".

Michael Anderson

Business Manager

Local 46

From: [Baran, Michael](#)
To: [Land Use Testimony](#); [Ben Kuhn](#)
Subject: [EXTERNAL] Baran Testimony for SPARC
Date: Thursday, January 2, 2025 1:21:55 PM

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To whom it may concern,

Below is my testimony for the 1/9 hearing on the SPARC Kips Bay project.

Thanks,
Mike Baran

As a resident of Kips Bay and a Partner in Pfizer's Venture Capital group, I am deeply invested in both the community and the future of biotechnology. I am writing to express my enthusiastic support for the SPARC Kips Bay life science development project.

One of the significant challenges to gaining traction in New York City's biotech sector has been geographic dispersity. However, we are witnessing the formation of an organic mini-hub in Kips Bay, which includes prestigious institutions such as NYU Langone, Bellevue Hospital, the Alexandria Center, and now the SPARC project. This growing life science footprint in Kips Bay is a transformative opportunity to bolster our local economy, create high-quality jobs, and cement New York City's position as a global leader in biotechnology.

The SPARC Kips Bay project aligns perfectly with our city's broader goals of economic growth and technological innovation. It is an essential step toward creating a vibrant, interconnected biotech community. From my professional vantage point, I can attest to the vital importance of fostering a robust biotech ecosystem. Our work at Pfizer's Venture Capital group is centered on nurturing and building biotech companies, and I have seen firsthand the tremendous impact such innovation hubs can have.

By supporting SPARC Kips Bay, we are not only advancing scientific discovery but also ensuring that New York remains at the forefront of medical and technological advancements. The project will bring numerous benefits, including advancements in public health, new employment opportunities, the development of the next generation of talent, and increased diversity and inclusion.

I wholeheartedly endorse this initiative and am confident it will bring significant benefits to Kips Bay and beyond.

Testimony

Of

Mitch Gipson, Senior Advisor to the Chief Operating Officer

City University of New York

Before the

New York City Council Subcommittee on Zoning and Franchises

Regarding T2025-2943

Application number C 240373 PMC (SPARC Kips Bay)

January 9, 2025

Good afternoon, Chair Riley and members of the Subcommittee on Zoning and Franchises. Thank you for the opportunity to testify today on the SPARC Kips Bay project. I am Mitch Gipson, Senior Advisor to CUNY Chief Operating Officer, Hector Batista.

The City University of New York is the largest urban university system in the country. We are enriched by a large and diverse student body and a world-class faculty that is dedicated to teaching as well as research.

We are extremely excited to partner with the City and State on the development of SPARC, a truly visionary project that will create a state-of-the-art life sciences, education, and public health hub at what is presently Hunter College's Brookdale Campus.

SPARC, as part of New York City's largest cluster of life sciences activity, will provide CUNY with the opportunity to play a key role in creating a talent pipeline for New Yorkers to enter the life sciences and healthcare sectors.

We are grateful to the city and state for providing the \$950 million that will allow CUNY to house modern educational and research facilities for 3 health science components of 3 colleges.

CUNY will serve as the anchor for this new, vibrant development, and our building will be built in the first phase, including space for three of our flagship schools:

- Hunter College School of Nursing & School of Health Professions
- Graduate School of Public Health and Health Policy
- Borough of Manhattan Community College health care programs

CUNY's investment in SPARC includes replacing the aging dorm that is presently located on the Brookdale Campus.

Over 950 new dorm beds will be available to Hunter and CUNY students at a privately managed dorm facility, located at 569 Lexington Avenue – within walking distance of the Hunter College uptown campus and a short subway ride to the future SPARC campus. CUNY has housed students there since 2022, and it is one of our most popular residential facilities with modern amenities.

Thank you, Council Member Powers, for your work with us to ensure that Hunter College and CUNY students have access to quality housing through not only a 1 for 1 replacement

of the total number of dorm beds at Brookdale but a great improvement from the aging facility.

SPARC will further CUNY's goals of preparing the next generation of college students for jobs in New York's growing life sciences and public health sectors.

SPARC will enable the University to:

- Expand our programs in healthcare and workforce development
- Create a much-needed new building that will draw prospective students, faculty, and staff, and
- Connect students to internships and jobs in these growing industries.

Critically, SPARC will place CUNY at the center of the City's and State's mission to support and further advance the life sciences and healthcare industry in New York City.

I look forward to taking any questions that you may have.



EMPOWERING KIPS BAY'S FUTURE WORKFORCE:

The Kips Bay Science District Education & Workforce Vision

Fellow New Yorkers,

Nine months ago, we assembled the Kips Bay Science District Education and Workforce Task Force, seizing on an unprecedented opportunity to advance equitable economic development in our city’s critical healthcare, life sciences, and public health ecosystems. Our vision at NYCEDC is to create a more vibrant, inclusive, and competitive economy that benefits all New Yorkers. In this report, we have outlined a bold vision for Kips Bay as a hub for educating and training the workforce and diverse entrepreneurs of the future—creating pathways into these high-growth ecosystems and fostering accessible, well-paying job and business opportunities essential for the future of New York’s economy and the economic mobility of New Yorkers.

New York City has long been a global leader in healthcare, with its top-tier hospitals and training institutions. Long-term public and private commitments—including \$1 billion through the City’s LifeSci NYC Initiative and \$620 million through the State’s Life Science Initiative—have established the city as a national life sciences hub. Building on the strength of our health and life sciences institutions and investments and on the city’s world-class education and workforce training, we have a unique opportunity to grow and lead within these key industries.

The Kips Bay Science District is at the heart of this opportunity. The District, already home to three major medical institutions, six higher education institutions and one million square feet of life sciences office and lab space, is the premier hub of New York City’s healthcare and life sciences ecosystems. This is why we’ve continued to invest in innovative projects in the District, such as the Alexandria Center for Life Science, Deerfield Cure, Innovation East, and most recently, the Science Park and Research Center (SPARC) Kips Bay.

SPARC embodies our commitment to creating accessible opportunities for all New Yorkers, bringing together education, workforce, and industry all in one physical location to further collaboration and provide equitable, accessible career pathways for students coming from New York City Public Schools (NYCPS) and The City University of New York (CUNY)—the largest public school system and urban public university in the US, respectively. Governor Hochul and Mayor Adams have committed a combined \$1.2 billion to bring three CUNY schools, new facilities for

New York City H+H and OCME, and a NYCPS STEM-focused high school and STEAM Center to half of the SPARC campus. The other half will include over one million square feet of privately built biotech space. The two parts of the campus, as well as the broader Kips Bay District, will be integrated through our workforce and entrepreneurship strategies creating unprecedented access and opportunity for CUNY and NYCPS students in the life sciences and healthcare industries.

Together, working in partnership with the Mayor's Office of Talent and Workforce Development (NYC Talent), the New York Alliance for Careers in Healthcare (NYACH), and nearly 50 other leaders in education, workforce, and industry, we are committed to delivering on the promise of SPARC and projects across Kips Bay. In crafting this vision, we have been guided by our mission: ***To develop a clear vision for the career pathways, programs, and partnerships needed to ensure Kips Bay provides equitable access for New Yorkers to the city's healthcare, life sciences, and public health education, training, and job opportunities.***

The work ahead of us will take time. This year, we focused on crafting a vision that reflects the input of experts across sectors, grounded in labor analysis and research. Together, we've identified the key challenges and opportunities for workforce development in the health and life sciences ecosystems and mapped out how we, as stakeholders in Kips Bay, through new programming and partnerships, will create and support integrated academic and career pathways for the District and beyond.

We are so grateful for the support our Task Force members have provided in creating this report and embarking on this ambitious plan.



Andrew Kimball

President & CEO

NYCEDC

Kips Bay Science District Education and Workforce Task Force



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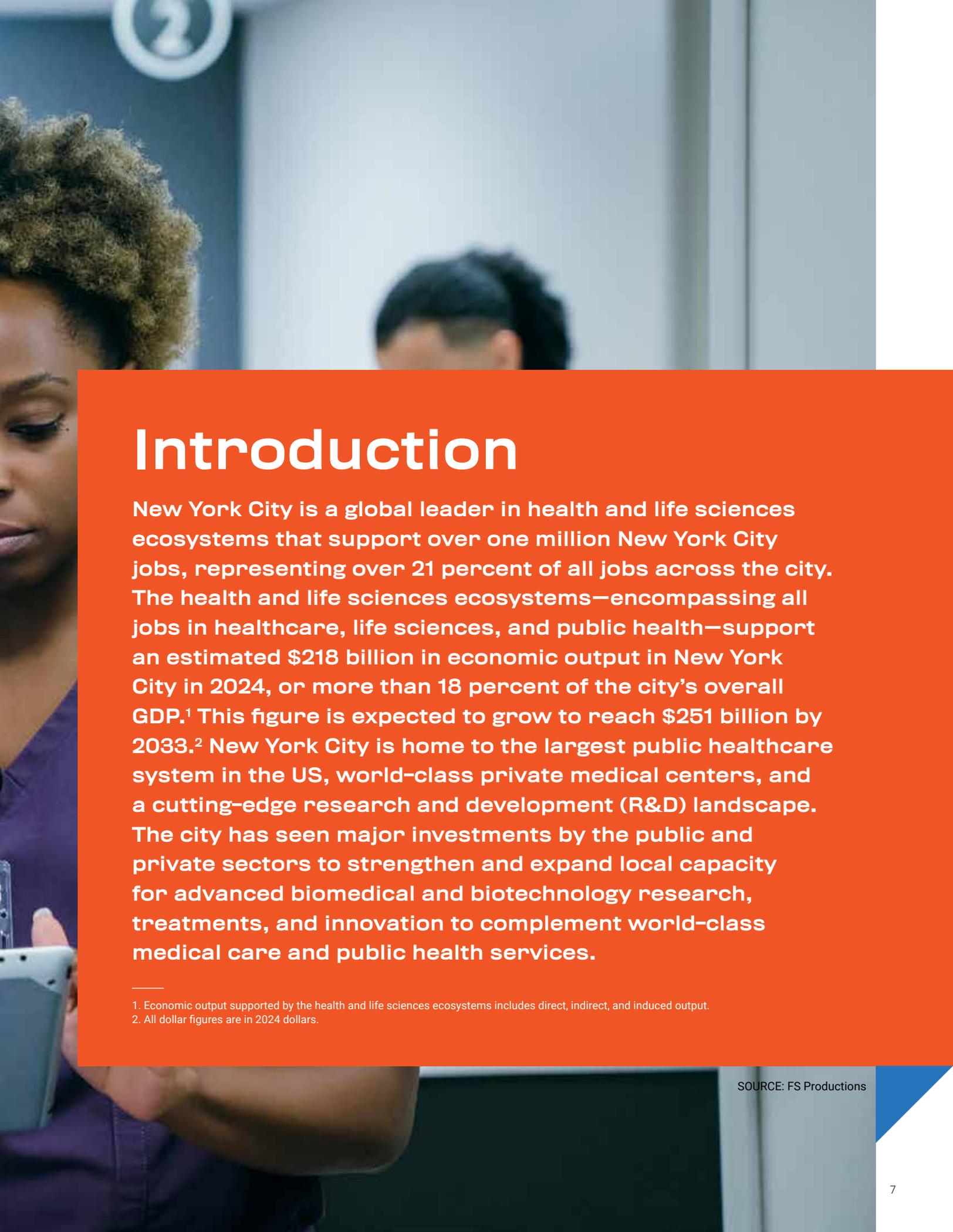
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A woman with curly hair is looking at a tablet in a clinical setting. In the background, another person is visible, and a circular sign with the number '2' is on the wall.

Introduction

New York City is a global leader in health and life sciences ecosystems that support over one million New York City jobs, representing over 21 percent of all jobs across the city. The health and life sciences ecosystems—encompassing all jobs in healthcare, life sciences, and public health—support an estimated \$218 billion in economic output in New York City in 2024, or more than 18 percent of the city’s overall GDP.¹ This figure is expected to grow to reach \$251 billion by 2033.² New York City is home to the largest public healthcare system in the US, world-class private medical centers, and a cutting-edge research and development (R&D) landscape. The city has seen major investments by the public and private sectors to strengthen and expand local capacity for advanced biomedical and biotechnology research, treatments, and innovation to complement world-class medical care and public health services.

1. Economic output supported by the health and life sciences ecosystems includes direct, indirect, and induced output.
2. All dollar figures are in 2024 dollars.

Healthcare, life sciences, and public health are integrated and deeply connected with many institutions, companies, and occupations straddling all three ecosystems.

Increased demand for interdisciplinary care and community-based research has deepened the overlap between healthcare, life sciences, and public health. The growing integration of technology within and across these sectors has also led to the emergence of innovative applications, such as the use of AI and machine learning to accelerate drug and clinical trial development.

New York City's health and life sciences ecosystems also offer immense job opportunities—expected to grow 24 percent by 2033.

To meet this opportunity and ensure the city remains highly competitive in these industries, it is critical that the City provide a continuum of accessible educational and workforce opportunities for its diverse and talented population.

New York City is at the forefront of health and life sciences research,

with a diverse talent pool, more than 100 disease-specialty foundations, 370 federally qualified health centers, 50 hospitals, and nine world-leading academic medical centers. Growing the life sciences has been a focus of the City and State over the past decade through programs like the City's \$1 billion LifeSci NYC Initiative and the State's \$620 million Life Science Initiative. The City's investments have gone to support the creation of commercial wet and dry lab space, spur new research and innovation, build a diverse pipeline of

talent, and support early-stage companies. Most recently, the City and State announced the launch of the Chan Zuckerberg Biohub New York (CZ Biohub NY), leveraging public-private investment to drive collaboration around biomedical and biotechnology research. In Fiscal Year 2024, New York City received more than \$2.7 billion in National Institutes of Health (NIH) grants, more than any other city, including Boston, which previously led for almost a quarter century. As a result of this track record of investment, New York City now has over 700 R&D-stage companies and established clusters of commercial life sciences development across the city, including the growing cluster in Kips Bay.

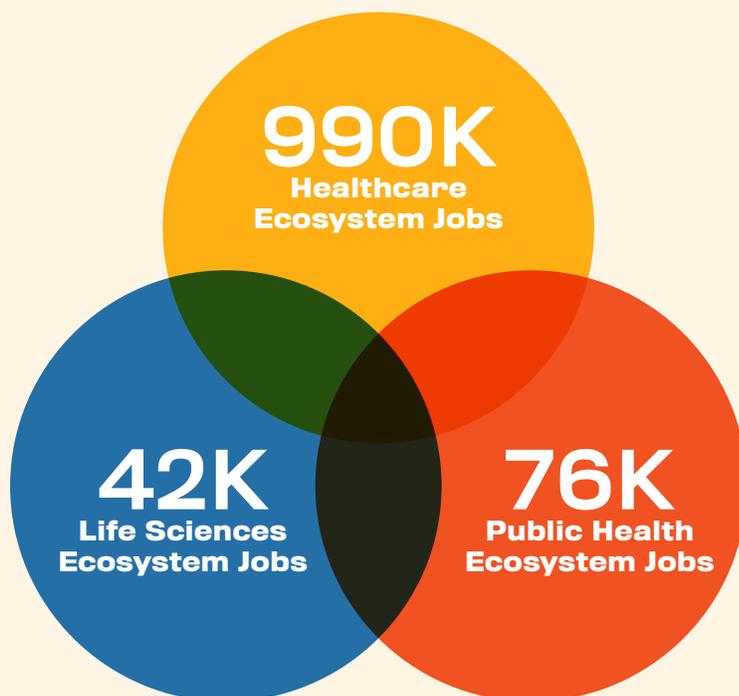
The Kips Bay Science District (the District, or Kips Bay) is at the center of the health and life sciences ecosystems, with an interconnected cluster of premier institutions.

Bolstered by the largest municipal public healthcare delivery system in the United States—New York City Health and Hospitals (H+H)—Kips Bay is home to three major hospitals, six higher education institutions, and the Alexandria Center for Life Sciences, the city's first commercial life sciences campus. Located on the east side of Manhattan, the District will benefit from its concentration of major innovation hubs like Innovation East, Deerfield Cure, and the new Science Park and Research Campus (SPARC). This District will continue to drive innovation in New York City's growing health and life sciences ecosystems by bringing education and industry together and developing the next generation of talent within Kips Bay.

MISSION STATEMENT

To develop a clear vision for the career pathways, programs, and partnerships needed to ensure Kips Bay provides equitable access for New Yorkers to the city's healthcare, life sciences, and public health education training and job opportunities.

The New York City Health and Life Sciences Ecosystems



- 1.05 million jobs (2023)³
- 21 percent of all jobs across New York City
- \$218 billion in economic output⁴ (2024)

Definitions*

Health and life sciences ecosystems encompass jobs in healthcare, life sciences, and public health.

Each ecosystem includes sector- and non-sector-specific occupations in core industries, as well as sector-specific occupations in non-core industries. For example, this report's healthcare definition includes physicians and accountants at NYU Langone Health, as well as nurses working in public schools.

1. **Healthcare** includes the diagnosis, treatment, and care of people experiencing sickness and injuries, including direct support in these activities.
2. **Life Sciences** is the combined applications of biology and technology for the advancement of humanity, including the study of living organisms.
3. **Public health** is focused on improving and promoting the health of populations, including preventing populations from sickness and injury.

* Please see Appendix: Methodology & Analysis for details on sources and methodology

3. There is overlap in occupations between healthcare, life sciences, and public health which has been accounted for in our analysis. As a result, the Health and Life Sciences Ecosystems accounts for 1.05 million total jobs.

4. Job estimates are based on 2023 data, the most recent year available at time of analysis. Economic impacts are based on 2024.

Partnerships between the District’s education, workforce, and industry leaders—made possible by SPARC’s unique co-location of anchor institutions—are key to the ongoing success of the District.

Recognizing that SPARC presents an unprecedented opportunity to catalyze innovation through close collaboration, New York City Economic Development Corporation (NYCEDC) assembled the ***Kips Bay Science District Education and Workforce Task Force***, composed of nearly 50 stakeholders. Led by NYCEDC and incorporating SPARC’s anchor institutions including NYCPS, CUNY, NYC H+H, and OCME, the Task Force was convened to develop a clear vision for the career pathways, programs, and partnerships needed to ensure Kips Bay provides equitable access for New Yorkers to education, training, and job opportunities.

Led by NYCEDC on behalf of the Task Force, this report is the culmination of nearly a year of work. NYCEDC’s efforts included a comprehensive labor analysis to identify “priority occupations” and career pathways, a thorough review of existing literature, a catalog of existing City programs to potentially scale, and the creation of 10 district-specific case studies to provide targeted insights about potential

recommendations. Additionally, NYCEDC has engaged more than 50 stakeholders through eight working group meetings, over 15 interviews with employers, training organizations, community groups, and City representatives, and two full Task Force convenings to align on findings and recommendations.

This report provides an overview of NYCEDC’s findings and outlines the Task Force’s vision, providing a roadmap to ensure equitable access for New Yorkers to the city’s health and life sciences education and job opportunities. It also identifies the District’s priority occupations as those that offer well-paying opportunities, are accessible to New Yorkers, and are in-demand and well-aligned with the District’s strengths in education, training, and employment. To make this vision a reality, the mission moving forward will be for partners to address long-standing challenges across the health and life sciences ecosystems by delivering results in accordance with the recommendations to support talent into priority occupations. Kips Bay partners will ensure career pathways to advancement are clear with strong support structures, developing sector-specific, industry-driven training programs that provide equitable job opportunities for all New Yorkers.



SOURCE: SOM / Miysis

The new Science Park and Research Campus (SPARC) will be a first-of-its-kind job and education center developing the next generation of talent to support the health and life sciences ecosystems. SPARC will transform the former CUNY Hunter College Brookdale campus into a state-of-the-art healthcare, life sciences, and public health hub, and will bring public realm improvements to the broader Kips Bay neighborhood. With over \$1.2 billion in City and State investment committed and \$2 billion in private investment anticipated, this visionary project is expected to create over 3,000 permanent jobs and 12,000 construction jobs, generate \$42 billion in economic impact over the next 30 years, and establish a pipeline from New York City's public schools and public universities to well-paying careers in healthcare, life sciences, and public health.

SPARC will be anchored by new, modern facilities for the City University of New York (CUNY) Hunter College School of Nursing and School of Health Professions, the CUNY Graduate School of Public Health and Health Policy, and the Borough of Manhattan Community College's multiple healthcare programs. It will also include a NYCPS high school and a separate Science, Technology, Engineering, Art, and Mathematics (STEAM) Center providing hands-on and career-connected learning in healthcare and sciences. These education and training institutions will be further bolstered by the NYC Office of Chief Medical Examiner (OCME) and NYC Health + Hospitals, two critical organizations that will help connect students to direct workforce opportunities to increase exposure and preparedness for health and life sciences careers.





The New York City Health & Life Sciences Ecosystems

The health and life sciences ecosystems—encompassing jobs in healthcare, life sciences, and public health—supports immense economic activity in New York City, including 1.05 million jobs and almost \$218 billion in economic outputⁱ. With an average median wage of \$38 an hour⁵, many careers in the health and life sciences ecosystems offer living wages⁶ and provide clear opportunities for economic mobility. The health and life sciences ecosystems account for 21 percent of all jobs across New York City, and is growing: by 2033, it will support 1.3 million jobs and \$251 billion in economic output.⁷

5. The “average median” wage is the weighted average of the median wages for each occupation contained within the ecosystem.

6. MIT living wage for New York-Newark-Jersey City, NY: 2 Adults, 2 children, \$34.26. The living wage shown is the hourly rate that an individual in a household must earn to support themselves and/or their family, working full-time, or 2080 hours per year. Last updated February 2024.

7. All dollar figures are in 2024 dollars.

SOURCE: Getty Images, Thomas Barwick

There are clear intersections between healthcare, life sciences, and public health, as academic and commercial R&D come together to advance critical scientific breakthroughs to improve health outcomes and integrated-care models become more prevalent to support preventative and long-term care. These intersections translate to the workforce, with similar occupations seen across all three fields, given the vital role of academic research and entrepreneurship. For example, **software developers**, **data scientists**, **clinical lab technicians**, and **general**

and operations managers are critical across the health and life sciences ecosystems. Typically, these cross-ecosystem occupations require some subject-specific knowledge, but also demonstrate the opportunity within Kips Bay to bring together these partners to support growth through interdisciplinary partnerships and programs. As a center for academic excellence, institutions in Kips Bay will train and support New Yorkers who will lead scientific breakthroughs and launch dynamic new startups that improve health outcomes and enhance quality of life.



SOURCE: Tory Williams

The growing intersection between tech and health and life sciences

Technology has become an inextricable piece of the health and life sciences ecosystems, and as each field continues to grow and catalyze innovation, this bond will only deepen. The Task Force has already cited demand within health and life sciences for tech workers—including data scientists and software developers, whose jobs within health and life sciences are projected to grow 68 and 60 percent respectively in the next decade. As the sectors continue to advance, the District can expect to see even more growth in emerging interdisciplinary “dry lab” fields that integrate AI and machine learning into health and life science innovation.

Healthcare

Employing approximately 990,000 people and totaling approximately \$208 billion in economic output, healthcare has a profound impact on New York City's economy.ⁱⁱⁱ

OVERVIEW

New York City's healthcare workforce has grown by 36 percent since 2014—nearly three times the rate of the economy's overall growth. With almost one million people working in healthcare, the workforce makes up roughly 20 percent of the city's total workforce. The economic output supported by healthcare is projected to reach a total of almost \$250 billion by 2033.⁸

A diversity of healthcare roles exist—patient- and non-patient-facing, research- and non-research-related, clinical and non-clinical—with many in-demand occupations offering living wages and advancement opportunities. The field offers clear ladders for advancement and opportunities for economic mobility, thanks to a robust workforce development network and strong public-private partnerships. With a certificate that typically takes a year, workers can enter the field as Licensed Practical Nurses (LPNs) earning \$32 an hour, and progress to become **registered nurses** with the addition of a two- or four-year degree.^{iv} **Registered nurses**, one of the largest healthcare occupations at 90,200 jobs, is poised to grow nine percent by 2033 and provides strong wages of \$55 an hour. A nurse looking to continue to advance can receive a master's degree and become a **nurse practitioner**, a highly specialized role, which pays a median wage of \$70 an hour.

CHALLENGES

Career advancement and higher-wage occupations in healthcare are critically bound to education, with nearly all top occupations that pay a living wage requiring at least a four-year degree. Average median healthcare wages are \$32 an hour, which falls below the living wage threshold. Wages are growing more slowly than the citywide average, increasing only \$2 since 2014.⁹ This requires a workforce development strategy that clearly connects each segment of the education and workforce development network from high school to college, including a dedicated approach to upskilling and ongoing learning.

Healthcare is more diverse than the economy overall: 75 percent of workers are female, and 67 percent are non-white, but women and Black and Latino workers are disproportionately employed in lower-wage occupations. One occupation—home health aides—accounts for nearly 40 percent of people working in healthcare. Home health jobs, described above, pay low wages, require limited education, and are primarily held by women of color. Across the healthcare field there is wage disparity when race is considered. White workers make an average of \$38 an hour, while Black and Latino workers respectively make \$27 and \$26 an hour. Closing these gaps will require scaling existing workforce programs, connecting and engaging with diverse talent to develop targeted programs to support advancement, and creating new entry-points that allow for growth.

Critical labor shortages exist in healthcare and have been exacerbated by the pandemic. The immense and inequitable cost of the COVID-19 pandemic changed the landscape and attitudes of the workforce, especially in New York City where trauma was extensive. Healthcare professionals are still recovering, with continued challenges especially in patient-facing roles. The pandemic exacerbated many labor shortages in the system and has challenged recruitment and retention. One critical

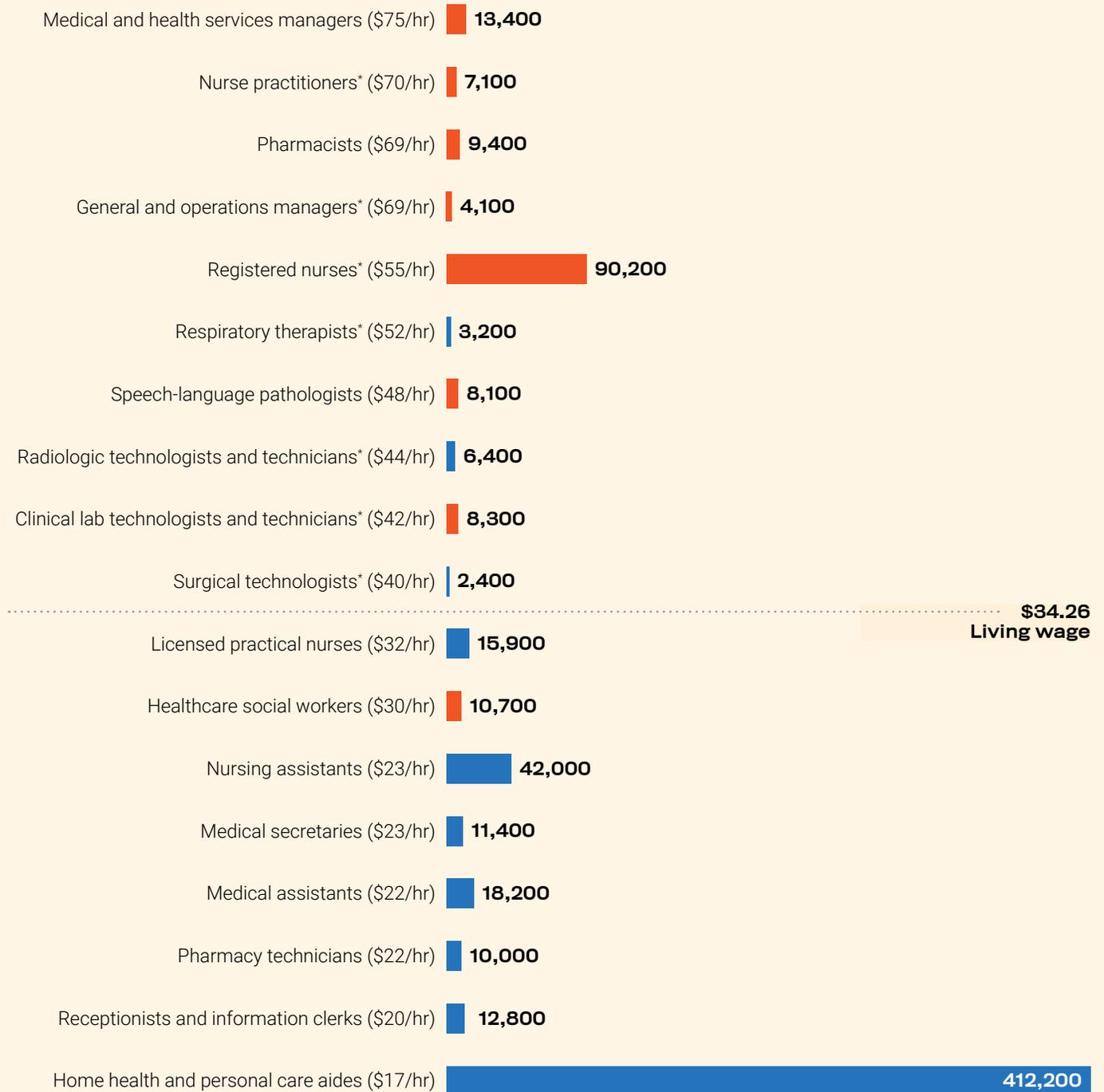
8. All dollar figures are in 2024 dollars.

9. Adjusted for inflation.

Academic Achievement and Wages in Healthcare Occupations

This graph shows some of the largest healthcare occupations. Nearly all occupations that provide a living wage require a four-year degree.

● Above Bachelor's ● Below Bachelor's



* Priority occupations, see page 24 for additional detail

example of this impact is the continued demand among employers for **registered nurses and nurse practitioners**. CUNY currently produces nearly half of the new nurses in New York City annually, with 70 percent of its graduates coming from historically underserved groups, making CUNY a pivotal partner in supporting this labor shortage. The CUNY Hunter-Bellevue School of Nursing provides a wide range of programs—including a Bachelor of Science (BS), Master of Science (MS), Advanced Certificate in Nursing, and Doctor of Nursing Practice (DNP) programs as well as its Evelyn Lauder Community

Care Nurse Practitioner Program—that provide clear on-ramps from BMCC’s Associate in Applied Science (AAS) in Nursing degree and Practical Nursing certification programs. However, CUNY Hunter is limited in the number of students it can admit into its BS Nursing program each year due to the national shortage of nurse faculty, limited science lab space, and competition for clinical sites. While these factors pose challenges to scaling, SPARC will provide needed space for the CUNY Hunter Nursing program and provide a pipeline to jobs by co-locating educational facilities with workforce opportunities.



SOURCE: NYCPS and Northwell Health

Life Sciences

At the cutting edge of science and technology, life sciences is nascent but growing rapidly, employing approximately 42,000 people and generating more than \$16.5 billion in total economic output.

OVERVIEW

Employment in New York City's life sciences has grown 21 percent since 2014, with strong wages that have kept pace with citywide wage growth.

Life sciences employs approximately 42,000 New Yorkers, with average median wages of \$46 an hour. The ecosystem's total economic output is approximately \$16.5 billion.

While most well-known for scientists and researchers with advanced degrees, life sciences support a wide range of jobs at every level of workers' careers. For workers who have a bachelor's degree or higher, the ecosystem provides tremendous opportunity in research and clinical related occupations. New York City has outpaced Boston in NIH funding for two years in a row, establishing its reputation as a top market for life sciences R&D. Many of life sciences' most well-known occupations are clinical or research-based: **clinical lab technicians**,¹⁰ medical scientists, biological scientists, and **natural science managers** all earn well above the living wage. For workers without a bachelor's degree, technician roles across a variety of disciplines, including chemical technicians and **non-clinical lab technicians**, offer an entry point into the field and have median wages between \$20 to \$30 an hour. Life sciences also includes critical, non-core supportive roles like project managers, software developers, administrative support workers, and others.

Technology is altering the jobs and skills landscape for life sciences workers. Life sciences is rapidly changing as it uses cutting-edge technologies to address complex challenges, with important R&D work that requires specialization in data analysis, computational math, or other technologies. Non-traditional life sciences roles such as **software developers** and **data scientists** are becoming critical to the advancement of the ecosystem. Life sciences education and training programs should evolve to accommodate emerging industries and advance innovation and entrepreneurship in the ecosystem. Strong ties to the tech ecosystem, along with more exposure and outreach initiatives will help life sciences businesses recruit much-needed talent that may have limited awareness of these opportunities.

Finally, the landscape of life sciences employers is smaller and newer compared to the other two ecosystems. As life sciences and its companies mature, employers would like to see additional collaboration with workforce providers to identify inroads to job training and entry-level occupations.

CHALLENGES

While life sciences as an ecosystem is as racially diverse as the overall economy, women and Black and Latino individuals are disproportionately concentrated in lower-wage occupations. This signals a need for programs to support diversifying life sciences occupations, especially for career advancement. Of the 20 largest life sciences occupations, just five meet or exceed the citywide average for Black representation, and only four meet or exceed the average for Latino representation. Higher-paying occupations also have substantially lower female representation, with many occupations paying below the citywide average.

10. This occupation code includes both clinical lab technicians, an in-demand occupation for life sciences that typically requires a two-year degree, and clinical lab technologists, an in-demand occupation for healthcare that typically requires a four-year degree.



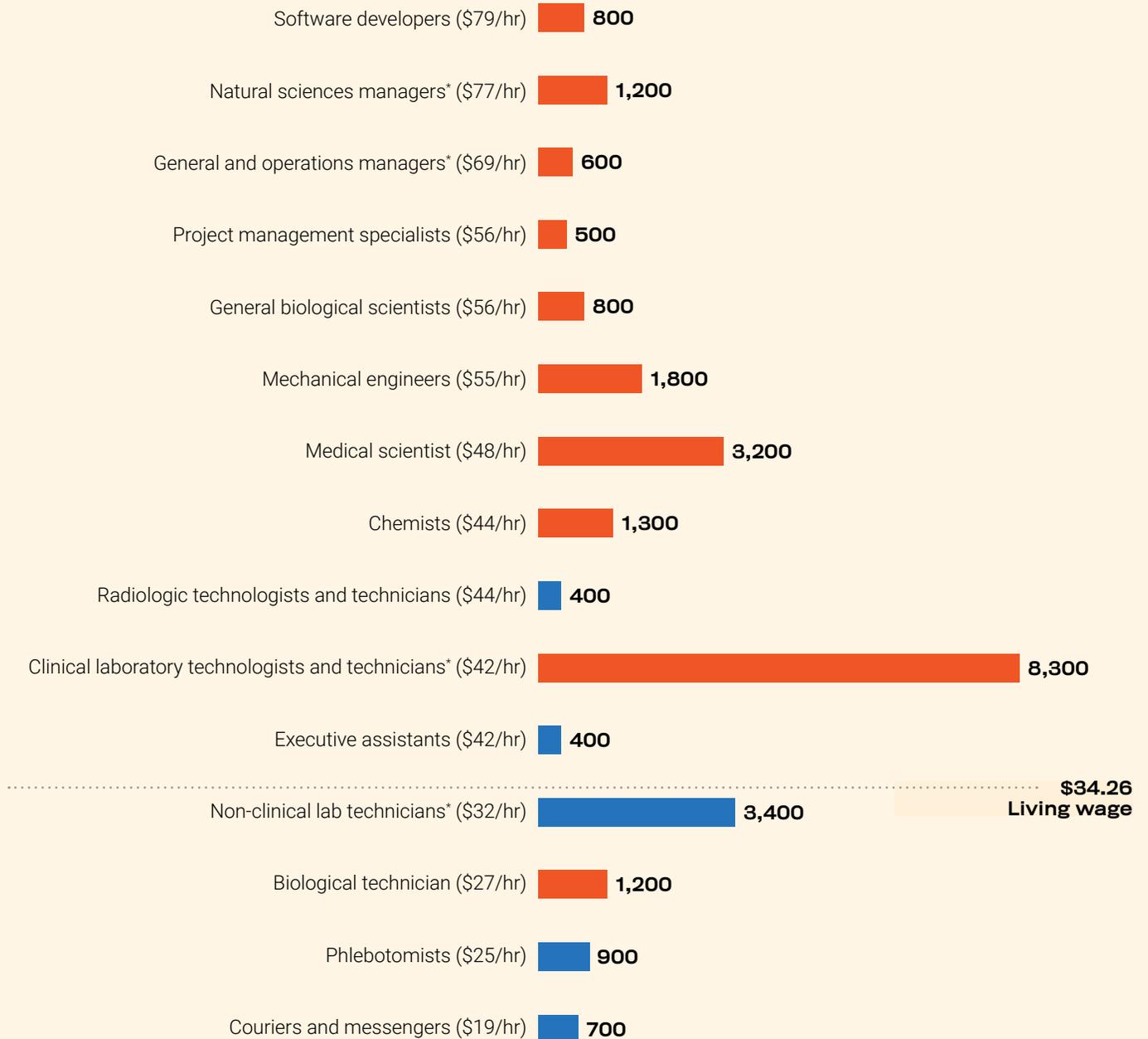
Most life sciences occupations pay above the living wage; however, most of these jobs require a four-year degree. Stakeholders noted that young talent and adult learners, especially people of color and women, often lack awareness of the range of roles within the life sciences. The lack of exposure to research, patient and non-patient-facing, clinical and non-clinical, and innovation-focused roles can limit career and advancement opportunities. Stakeholders also indicated a lack of low- to mid-skill training programs, which are key to expanding opportunities within life sciences. Closing representation gaps will require intentional efforts by workforce partners and employers, including exposure programs and training aimed at increasing advancement for underrepresented workers. As a center for academic excellence, Kips Bay offers a chance to expand life sciences job opportunities to more New Yorkers, and better connect talent to advancement

opportunities and four-year degrees. The District can support pathways from entry-point occupations through degree programs and into more advanced occupations, hosting the entire career pipeline from high school to adult learning in one location. For example, stakeholders noted labor shortages for clinical lab technicians, a role that requires a two-year degree. In the short-term, identifying occupations that can serve as a pathway into the clinical lab technician role, along with local degree programs accessible to Kips Bay employees, could begin to build and strengthen relationships between employers and trainers to establish a pipeline of talent. Longer-term, connecting Kips Bay partners NYCPs and CUNY with employers in the District—to create work-based learning experiences and increase exposure to career pathways—could encourage students to pursue careers in life sciences.

Academic Achievement and Wages in Life Sciences Occupations

This graph shows some of the largest life sciences occupations. Nearly all occupations that provide a living wage require a four-year degree.

● Above Bachelor's ● Below Bachelor's

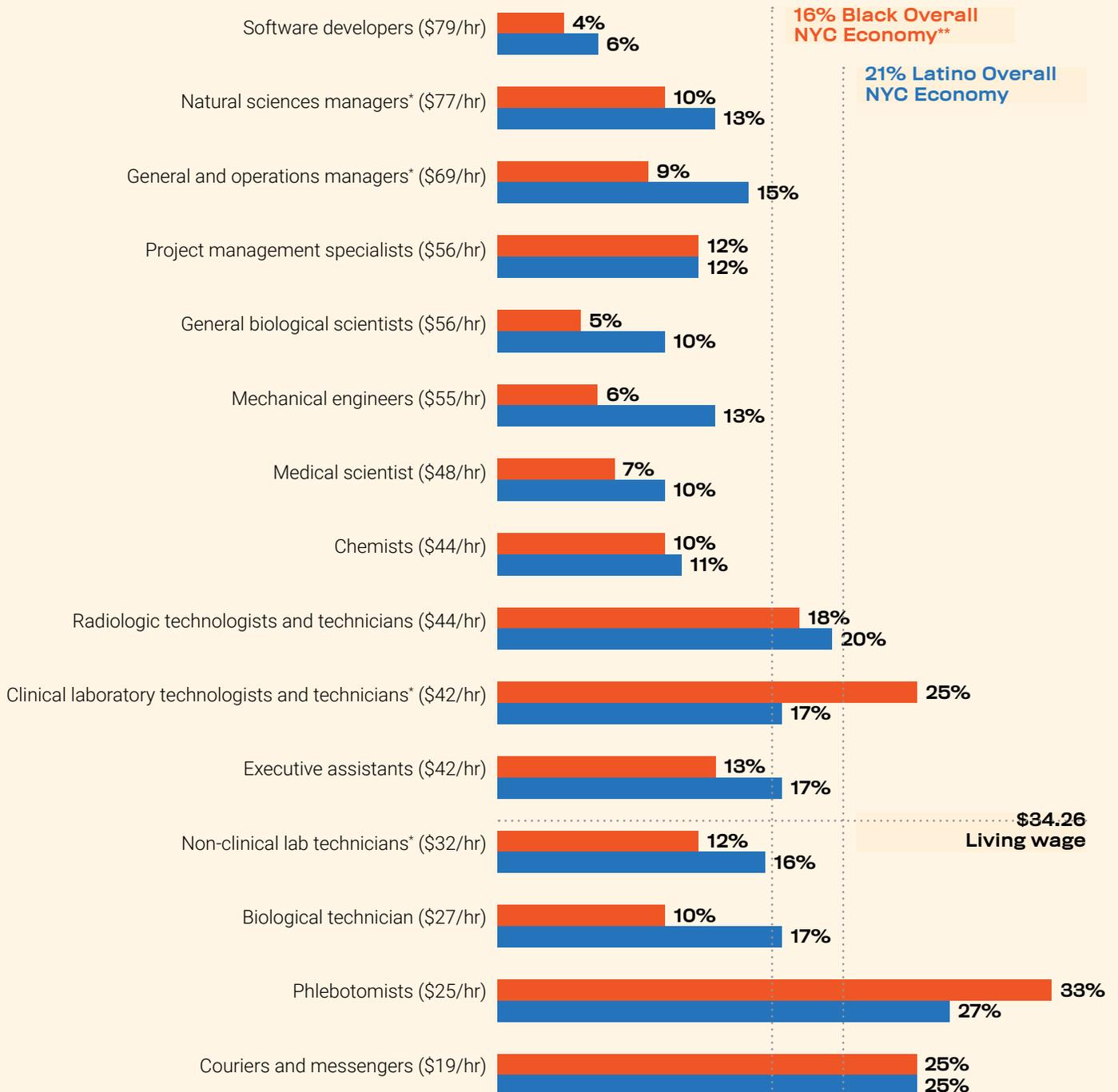


* Priority occupations, see page 24 for additional detail

Black and Latino Representation in Life Sciences Occupations

This graph shows some of the largest life sciences occupations. While life sciences as an ecosystem is as racially diverse as the overall economy, Black and Latino individuals are disproportionately concentrated in lower-wage occupations.

● Black Representation ● Latino Representation



* Priority occupations, see page 24 for additional detail

** Percentage refers to demographics of the New York City Workforce.

Public Health

Over 76,000 people work in public health in New York City, supporting more than \$18 billion in economic output.

OVERVIEW

Public health employs 76,000 people in New York City, which is home to the largest municipal public health department and healthcare system in the US. The city and the District have an immense opportunity to leverage these institutions—as well as the many public, private, and nonprofit organizations that provide public health services and training and conduct applied public health research and advocacy—to build strong education-to-workforce pipelines and strengthen career pathways in the ecosystem.

While the ecosystem saw a 19 percent increase in employment from 2014-2019, that growth stalled during the COVID-19 pandemic—a time when the importance of public health became increasingly clear. Assuring the population's health requires a continuum of services, programs, and policies to bridge the healthcare system (which centers on individual patient care) and the public health system (which includes the development and enforcement of health promotion policies and the assessment and assurance of population health).

By its nature, public health is interdisciplinary, spanning a range of industries, career pathways, and activities, from education and programming to research and policymaking and advocacy. A broad range of skills and capacities are required to support population health. Unlike healthcare and life sciences, public health has not historically been clearly defined or studied as an ecosystem: This report has defined public health roles as those focused on improving and promoting the health of populations, including the prevention of sickness and injury.

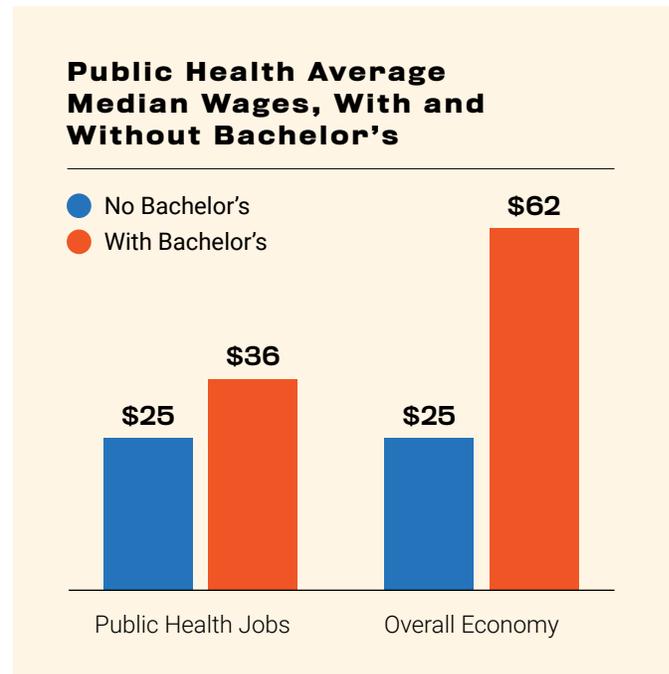
CHALLENGES

Many public health occupations face challenges around advancement and retention, with average median wages that fall below the living wage threshold at \$32 an hour. This signals a need for policies that support advancement and upskilling within public health. Most critically, public health occupations that require a four-year degree do not see the same premium in wage growth as jobs in the overall economy—the increase is only \$11 an hour compared with an increase of \$37 an hour for the overall economy. As with healthcare and life sciences, there is a strong need for both exposure programs and training focused on advancement within the field. Programs that allow current employees to upskill through a work-study effort could allow for those with expertise to continue to advance in their careers. District education partners provide important access to advanced degree programs for workers, helping ensure further economic mobility and career progression. Public health offers careers across a spectrum of roles, with occupations spanning educational attainment and skill levels.

CUNY Graduate School of Public Health (SPH) is a key example of an institution providing the kind of upskilling required in public health. The school bolsters future growth of the ecosystem by preparing its students for advanced education and employment—98 percent of CUNY SPH graduates are employed or continuing their education. CUNY SPH offers advanced degrees in seven different specializations to support advancement into public health's highest-paying occupations including epidemiology, biostatistics, and environmental and occupational health sciences. Offerings include traditional public health degrees and specializations, but also focus on skills that are essential to public health such as communication, cultural competency, and leadership to support talent's advancement.

While the overall public health workforce is more diverse than the broader economy, representation is heavily concentrated in low-wage occupations. Many of public health's largest occupations have higher female representation than the overall economy, but a few of the highest-paying occupations have substantially lower representation than the remainder of the top occupations: For example, 40 percent of environmental scientists and specialists (\$49 an hour) are women, compared to 52 percent of New York City's overall workforce. Likewise, occupations with the most diverse representation within public health pay well below the living wage, while occupations that pay above have racial representation far below the citywide average.

Entry-level occupations like community health workers highlight the disconnect between high-demand occupations and living wages. Community health workers (sometimes referred to as patient navigators or health liaisons) are frontline public health workers, advocating for the health needs of individuals and assisting community residents in communicating with providers or social services agencies. While there are often no educational requirements beyond a high school degree, these roles require significant cultural and linguistic skills tailored to the needs of a specific population



or community. This occupation is growing—both historically, due to the significant infusion of federal and state resources for pandemic response, and looking ahead with recent State investments in integrating patient-focused care. However, these occupations continue to pay lower wages—with a median wage of \$27 an hour. Additional efforts are needed to increase the wages in these roles and help talent advance to better-paying occupations in public health and healthcare.

Types of Public Health Occupations

Public health offers a wide range of career opportunities across various disciplines and industries. These jobs are available at an array of educational requirements from entry-level, mid-career, and managerial positions. These occupations are essential to the sector and offer a glimpse into the interdisciplinary nature of public health as an industry:

- Assistant environmental scientist
- Communications director
- Community health worker
- Data scientists and technician
- Epidemiologist
- Environmental health technician
- Health administrator
- Health education specialist
- Industrial hygienist
- Patient navigator
- Project coordinator
- Public health nutritionists

Priority Occupations for the Kips Bay Science District

The Kips Bay Science District's priority occupations offer economic mobility for New Yorkers and serve District employers.

These priority occupations have been selected from among the largest in each ecosystem, offer well-paying opportunities, are accessible to New Yorkers, and are in-demand and well-aligned with the District's strengths in education, training, and employment. Kips Bay partners will implement the report's recommendations to ensure priority occupations' pathways to advancement are clear, coordinated, and supported by strong programs and wraparound services for people working in healthcare, life sciences, and public health.

Collectively, priority occupations represent almost 15 percent of jobs in the health and life sciences ecosystems. Given the interconnectedness of the health and life sciences ecosystems, occupations may span healthcare, life sciences, and public health. For example, a registered nurse may support the individual patient's needs in healthcare or work in public health to understand health issues affecting populations.

Factors used to determine Priority Occupations

Priority occupations were identified through extensive labor and occupational analysis, and in consultation with stakeholders. A list of all occupations in the health and life sciences ecosystems was narrowed to identify occupations that take the following factors into account.

- **SIZE AND GROWTH:** jobs that are among the largest in each ecosystem and are growing and identified as in-demand by employers.
- **ACCESSIBILITY:** a balance between jobs that do not require a four-year degree or have demonstrated pathways for non-degree holders, along with more advanced occupations that are attainable through years of experience and/or additional education.
- **LIVING WAGES:** jobs that offer a living wage of \$34 an hour or have clear pathways to living wage roles.¹¹
- **IN DISTRICT:** jobs that are present in Kips Bay and are critical for SPARC anchor tenants.
- **REPRESENTATION:** jobs that have clear gaps in representation across racial or gender lines, causing disparities in wealth-building opportunities.

In addition to priority occupations, this analysis has identified "entry-point" occupations that offer slightly lower wages but are highly accessible and have **clear pathways to advancement** into living-wage occupations through additional education and years of work experience:

- Licensed practical nurse (LPN)
- Certified nurse assistant (CNA)
- Community health worker

11. MIT living wage for New York-Newark-Jersey City, NY – 2 Adults, 2 children, \$34.26. The living wage shown is the hourly rate that an individual in a household must earn to support themselves and/or their family, working full-time, or 2080 hours per year.

Ecosystem	Occupation	Median Wage	Jobs in the Ecosystems (2023)	Projected Growth (2033)	Education Required	% Female	% Black	% Latino
Healthcare	Surgical technologist	\$40	2,400	8%	Below bachelor's	71%	31%	23%
	Radiology technician	\$44	6,400	9%	Below bachelor's	65%	18%	20%
	Clinical lab technologists and technicians	\$42	8,300	9%	Above bachelor's**	70%	25%	17%
	Respiratory therapists	\$52	3,200	11%	Below bachelor's	58%	25%	17%
	Registered nurses	\$55	90,200	9%	Above bachelor's*	87%	20%	13%
	Nurse practitioners	\$70	7,000	30%	Above bachelor's**	88%	14%	12%
Life Sciences	Non-clinical lab technicians	\$32	3,400	8%	Below bachelor's	56%	12%	16%
	Clinical lab technologists and technicians	\$42	8,300	9%	Above bachelor's**	70%	25%	17%
	Natural science managers	\$77	1,200	43%	Above bachelor's	58%	10%	13%
Public Health	Healthcare social workers	\$30	13,200	54%	Above bachelor's	77%	30%	22%
	Mental health counselors	\$30	13,600	51%	Above bachelor's	69%	30%	22%
	Environmental scientists	\$49	1,400	-14%	Above bachelor's***	40%	6%	8%
Cross-ecosystem	General and operations managers	\$69	5,100	24%	Above bachelor's	21%	4%	6%
	Data scientists	\$69	650	68%	Above bachelor's	45%	7%	8%
	Software developers	\$79	1,300	60%	Above bachelor's	32%	9%	15%

* Nurses can be licensed with an associate's degree, but must obtain a BS within 10 years.

** This occupation includes clinical laboratory technologists and technicians. Clinical laboratory technicians, an in-demand occupation for life sciences typically require a two-year degree. Clinical laboratory technologist, an in-demand occupation for healthcare, typically requires a four-year degree.

*** While this occupation has not seen growth in the last ten years, stakeholders report that the occupation is in demand as State and federal policy increasingly acknowledges the connections between environmental health and health outcomes.

Please see Appendix: Methodology & Analysis for details on sources and methodology



A photograph of a man with dark, curly hair and glasses, wearing a white lab coat over a dark shirt. He is smiling and looking down and to the left. The background is a plain, light-colored wall.

Developing Talent in Kips Bay Today

These programs exemplify the work already being done in the District that must be supported, replicated, and scaled to ensure strong talent pipelines into priority occupations. They serve as a model for future efforts as Kips Bay partners undertake their work to ensure continued growth and success of the health and life sciences ecosystems in New York City.

SOURCE: American Museum of Natural History,
Science Research Mentoring Consortium



SOURCE: NYCPS

NEW YORK CITY PUBLIC SCHOOLS' STEAM CENTER

Re-imagining student learning and engagement in future careers through hands-on industry-based career connected learning.

New York City Public Schools' Science, Technology, Engineering, Arts, and Mathematics (STEAM) Centers serve as career exploration and preparation hubs for 11th and 12th graders in NYC's public school system. STEAM Centers partner with select high schools across the city to provide state-of-the art, work-immersive learning environments that equip students with the technical training they need to advance within one of several specific career pathways. Through the STEAM Center's industry partnerships, students develop professional networks through participation in a range of work-based learning experiences.

At SPARC, NYCPS will establish a high school and a separate STEAM Center to provide career-connected lab spaces and targeted technical training for partner schools across the city. NYCPS at SPARC will offer FutureReadyNYC health and life sciences pathways that integrate five of the strongest evidence-based interventions to enhance student awareness and preparation to launch successfully into careers in healthcare and life sciences: personalized advising, career-readiness skills, career-connected instruction, early college credits and credentials, and a sequence of work experiences including internships and apprenticeships.

Programming at the high school and STEAM Center will be designed to intentionally integrate higher education and employer partnerships at SPARC so students graduate with real skills and a strong foundation to enter and advance in careers in health, life sciences, and other occupations represented by the employers on this campus.

NYC H+H/ BELLEVUE SCHOOL OF RADIOLOGIC TECHNOLOGY

Job placements for nearly 100 percent of students into one of the District's priority occupations.

The NYC H+H/Bellevue School of Radiologic Technology provides a direct pathway into radiology technologist roles, an entry-level, living-wage occupation with median wages of \$44 per hour. The 24-month certificate program is held at the NYC H+H/Bellevue campus. Graduates apply for the American Registry of Radiological Technologists Certification and New York State Licensure, helping ensure they are competitive in the job market.

The program has a nearly 100 percent completion, certification, and job placement rate and helps tackle retention issues through tuition reimbursement for students who work with Bellevue after graduation.



SOURCE: CUNY SPH, Firefly Innovations

CUNY GRADUATE SCHOOL OF PUBLIC HEALTH AND HEALTH POLICY'S FIREFLY INNOVATIONS

Empowering the next generation of public health entrepreneurs and innovators to create bold, scalable solutions that generate real-world impact.

Firefly Innovations is the premier public health entrepreneurship platform of the CUNY Graduate School of Public Health and Health Policy. It supports a community of entrepreneurs, academics, innovators, and investors working to develop, fund, and scale solutions to the most pressing public health challenges, while supporting academic excellence across the field.

Firefly's flagship program—the CUNY Public Health Innovation Accelerator—has supported 42 ventures and 101 entrepreneurs. With 90 percent of ventures led by minority founders and 50 percent by women, these ventures have secured over \$5.6 million in new funding, expanded their operations, and created impactful jobs to drive meaningful, scalable change in public health.



SOURCE: NYC Office of Chief Medical Examiner

NEW YORK CITY'S OFFICE OF CHIEF MEDICAL EXAMINER (OCME) FORENSIC PATHOLOGY FELLOWSHIP PROGRAM

Training the next generation of medical examiners through the world's leading forensic pathology fellowship program.

The United States has roughly 750 trained medical examiners, significantly fewer than the 1,500-1,800 forensic pathologists needed nationally. In a field facing acute staffing shortages, the quality of OCME programs remains strong and continues to attract outstanding candidates. The Forensic Pathology Fellowship Program—the largest in the world—is highly selective, training 150 board-certified forensic pathologists since 1990. The program's graduates have gone on to work as chief medical examiners around the country.

The Fellowship offers a comprehensive range of resources for fellows, including world-class toxicology and histology laboratories, the largest public DNA crime laboratory in North America, and a molecular genetics laboratory—the only one of its kind in the country to be housed in a medical examiner's office.



SOURCE: NYCPS, CUNY

NEW YORK CITY PUBLIC SCHOOLS' INDUSTRY SCHOLARS PROGRAM

Giving students an opportunity to apply classroom knowledge to real-world work experience.

Launched in 2016, the Industry Scholars Program (ISP) offers industry-specific, and career-connected learning programs aimed at helping high school students apply knowledge from the classroom to real-world work experience. Operated by Grant Associates, the Program connects employers with career and technical education (CTE) and FutureReadyNYC high school students to advance their education and career aspirations to help build the future of New York City's workforce. To date, 24,790 students have participated from 179 NYCPS high schools, generating ~\$17M in income for NYC communities. Notable ISP employer partners include MTA, Lincoln Center, Maimonides Medical Center, Montefiore Medical Center, Mount Sinai Health System, NYC DCAS, The Estee Lauder Companies, Hearst, and The Center for Cyber Safety and Education.





A Path Forward: Opportunities & Recommendations

Led by NYCEDC, nearly 50 members of the Kips Bay Science District Education and Workforce Task Force set out to develop a vision that ensures equitable access to healthcare, life sciences, and public health education and job opportunities for all New Yorkers. To implement this vision, the Task Force has provided recommendations for career pathways, programs, and partnerships.

SOURCE: Futureworks

The recommendations set out in this report build from robust labor analysis and engagement. Each recommendation advocates for collaboration between diverse stakeholders to advance the District's workforce ecosystem:

1. Scale and fund exposure-based learning opportunities for talent in the District.
2. Strengthen NYC students' career pathways through dual enrollment, transferable credits, and work-based learning opportunities.
3. Develop sector-specific, industry-driven training programs for talent into priority occupation career tracks.
4. Create an independent organization led by SPARC's anchor tenants to drive training and engagement.

Moving forward, partners will seek to implement these recommendations **to ensure priority occupation career pathways are clear, coordinated, and supported by strong programs**. The close proximity of the District's institutions and SPARC's anchors provides an unprecedented opportunity for Kips Bay partners to develop employer-driven, inclusive training programs that will serve as a front door for New Yorkers from all backgrounds to access quality job opportunities in these fast-growing sectors.

RECOMMENDATION #1:

Scale and fund exposure-based learning opportunities for talent in the district

CHALLENGE ADDRESSED

Stakeholders identified exposure programs—experiences that make talent more aware of opportunities in these fields—as a critical component to supporting New York City and Kips Bay talent, both to raise young students' awareness of potential job opportunities and to help close wage, race, and gender gaps in healthcare, life sciences, and public health jobs. Exposure programs can help provide a larger pool of talent for priority occupations, supporting talent as they consider various job opportunities. Stakeholders also noted opportunities to expand internships with employers, noting that smaller companies may need additional resources to adequately support talent and ensure they have the capacity to foster partnerships. Funding for these programs remains low because exposure programs often have less defined outcomes compared to traditional job training or higher education.

OVERVIEW & IMPLEMENTATION STEPS

This recommendation expands current exposure programs into the District, specifically for diverse populations and women, and would include supporting counselors and educators to learn about careers in the ecosystem to better guide students. Opportunities would bring awareness to talent on a wide variety of careers throughout the health and life sciences ecosystems: patient-facing, non-patient-facing, research, lab, and non-lab professions alike. Exposure programs should be long-term, immersive programs that provide students and talent with deeper engagement to understand job opportunities, find strong mentors, and build more meaningful relationships to support their network.

Implementation should involve engagement with employers at every level to build strong connections, and may include:

1. Collaborating with the NYC Science Research Mentoring Consortium—a partnership of over 20 NYC academic, research, and cultural institutions serving diverse high school students—to expand this program into Kips Bay. This would include funding and offering physical space for existing exposure programs that support women, Black, and Latino students.

2. Funding existing NYCEDC programs to potentially scale in Kips Bay, supporting long-term engagement opportunities for talent (e.g., Biobus, Genspace) and expanding employer partnerships through NYCEDC's LifeSci NYC Internship Program.

3. Developing and expanding long-term opportunities to connect directly with employers, including networking and mentorship opportunities for CUNY and NYCPs students (e.g., CUNY Career Mentorship Program), internships, entrepreneurship programming.

UNIVERSITY CITY; PHILADELPHIA, PA

A cluster of anchor institutions and life sciences companies creates opportunities for employer-driven job training, mentorship, and youth career exposure in STEM and health through FirstHand Labs.

Philadelphia's University City neighborhood is home to the University of Pennsylvania, Drexel University, and multiple medical institutions and life sciences companies. The 11-block University City District (UCD) was founded in 1997 to support placemaking, small businesses, and connections to career opportunities in the neighborhood.

Co-located education and employers to support young talent

The Science Center's FirstHand program serves youth from any Philadelphia middle and high school, focusing on career exposure to create a more equitable STEM talent pipeline:

- **Middle School Programs:** This program offers free, year-round learning experiences in STEM fields led by industry mentors with hands-on experiments in material science, DNA, and microscopy.
- **High School Sprints:** High school students from Philadelphia schools are invited to participate in sprints co-designed with and co-delivered by mentors. Current opportunities include a biotech crash course that allows students to practice lab skills with six biotech companies in University City Square.

FirstHand has served 2,500 students across 87 schools and engaged 348 STEM mentors from 95 different companies in the past ten years. In 2023, FirstHand served 292 students and facilitated eight paid internships.

Lessons for Kips Bay Science District

FirstHand demonstrates the value of co-locating exposure programs and employers, and together with UCD's larger workforce intermediary, they create an entire career pipeline in Philadelphia. The long-term nature of FirstHand's program allows mentors to capture students' attention for a longer period than a one-off experience, and teach real, transferable skills. FirstHand also reaches nearby residents, supporting the District's community. Given the District's co-location of employers and academic institutions, Kips Bay has an opportunity to replicate similar programming and support structures for talent.



THE NEW YORK CITY SCIENCE RESEARCH MENTORING CONSORTIUM, AMERICAN MUSEUM OF NATURAL HISTORY

Since 2013, this partnership has served over 5,145 students, providing youth from diverse backgrounds with paid internships, programming, and mentorship to support their pathways into STEM-related fields.

The Consortium is made up of 28 academic, research, and cultural institutions in NYC and provides high schoolers from diverse backgrounds access to innovative research internships to support their college and career pathways. Founded and managed by the American Museum of Natural History (AMNH), a Task Force member, the Consortium exposes high school students to in-depth research experiences that foster a sense of belonging to the scientific enterprise, refine their interests, and help them develop their own science identity. Programs not only help build technical skills but also provide mentorship and networking opportunities, creating a supportive community that holistically engages youth and cultivates long-term connections to STEM fields.

Particularly relevant to the Kips Bay Science District, over 85 percent of Consortium partners offer internships in the life sciences, leveraging the research expertise of institutions such as CUNY, Mt. Sinai, Memorial Sloan Kettering, and AMNH, and utilizing the assets of community science labs such as Genspace and Biobus. The Consortium model is scalable: Partners agree to guiding principles (e.g. commitment to equity, compensation of youth, mentor training for scientists), while allowing the design of programs to meet the strengths of partner institutions. Biobus's Junior Scientist Internship Program, for example, is a year-long program focusing on both science research and science communication, with youth participating in teaching and outreach events at Biobus's mobile and community labs. Another example is Mt. Sinai's Lloyd Sherman Scholars Program, a summer intensive research program focused on cancer biology and neurobiology, followed by academic year college and career support.

Annually, the Consortium supports and trains 380 scientist mentors and over 600 youth researchers, with 5,145 program alumni since 2013. The program reaches a diverse student body—56 percent of students identify as Black or Latino, and 65 percent identify as female—helping diversify talent into life sciences and health-related fields. A recent National Science Foundation-funded research project tracking a subset of Consortium students additionally found 75 percent of the youth involved are pursuing or have completed an undergraduate degree in STEM.

Lessons for Kips Bay Science District

With programs around the city, the New York City Science Research Mentoring Consortium will be a critical partner, giving students an opportunity to connect directly with employers through exposure and STEM pathway programs as well as long-term internship and mentorship opportunities located in the District. Scaling programs like those supported by the Consortium can reinforce building a diverse pipeline of talent into priority occupations for the District.

RECOMMENDATION #2:

Strengthen NYC students' career pathways through dual enrollment, transferable credits, and work-based learning opportunities

CHALLENGE ADDRESSED

Many occupations in the health and life sciences ecosystems require four-year degrees, including over 80 percent of occupations in life sciences. Healthcare occupations are bound to educational attainment as well, with strict credentialing, licensing, and certification requirements, making “earn-and-learn” and on-the-job training models challenging. This makes connecting high school and four-year degree institutions essential in building a strong career pipeline, allowing students to advance more easily and expanding equitable access to advanced coursework that supports accelerated degree completion and entry into these occupations.

This recommendation aligns directly with the goals of the City’s “Action Plan for Young Adult Career Success,”^v which emphasizes the importance of early career exploration opportunities, paid internships, and work experiences that are tied to school credits, transferable credits, and career connections between high school, college, and industry.

OVERVIEW & IMPLEMENTATION STEPS

To build a stronger career pipeline, New York City students need to be better connected to health- and life sciences-related careers through learning opportunities that integrate NYCPS, CUNY, and Kips Bay employers. This cohesive approach will ensure students are well positioned to earn accelerated degrees and acquire relevant skills to enter and thrive in health and life science occupations.

Advanced course work and credits must be well coordinated—aligned, stackable, and easily transferrable—so that students can navigate towards the completion of specific majors. Partnerships between NYCPS and employers are critical to ensuring curriculum, credentialing, and work-based learning experiences are mapped to pathways into priority and emerging occupations in health and life sciences.

As part of the implementation of NYCPS school and STEAM center, the below steps will be taken:

- 1. Develop a NYCPS high school and STEAM center as a FutureReadyNYC model.** FutureReadyNYC integrates college and career preparation to successfully launch students into strong careers in high-wage, high-demand sectors. Students will enroll in career-connected pathways that will help them develop financial literacy, participate in career-connected coursework, gain hands-on work experience, earn early college credit and/or industry-relevant credentials, and receive personalized career advising to prepare for rewarding careers in health and life sciences.
- 2. Develop pathways into Kips Bay priority occupations by engaging with Kips Bay partners and employers.** NYCPS will leverage existing knowledge of health-related pathways from other career-connected schools and develop new pathways into emerging life sciences occupations.
- 3. Scale existing programs that support career-connected learning.** NYCPS and CUNY will expand FutureReady College Now, a dual enrollment program for high school students that offers advanced pathway-aligned coursework for specific majors in healthcare and life sciences.
- 4. Integrate personalized college and career advising and high-quality work-based learning to enhance and reinforce classroom instruction.** For example, the District will build a stronger

career pipeline for students through targeted paid internships such as those provided by the AMNH Consortium and the Department of Youth and Community Development's (DYCD) Summer Youth Employment Program (SYEP). The close

proximity of the District's partners and SPARC tenants will help facilitate easier access to earn-and-learn opportunities, such as internships and apprenticeships for students to explore, train, and build connections in their field of interest.

RESEARCH TRIANGLE HIGH SCHOOL; RALEIGH-DURHAM, NC

A dedicated STEM high school sits within Research Triangle Park District, allowing students to access hands-on learning opportunities with employers collocated in the District.

The Research Triangle Park (RTP) is strategically located in the Raleigh-Durham area, connecting three major research universities and leveraging the region's intellectual and educational assets to support innovation and technological development. RTP's focus on talent has included the establishment of an in-District high school, helping to support a pipeline for talent for the state's robust life sciences sectors and for the RTP.

Connecting high school with employers and four-year degree institutions

Educational and training institutions have emerged to support a pipeline of skilled workers for North Carolina's biotechnology and life sciences industries, particularly concentrated in RTP. Started as a nonprofit teaching immersion lab, the development of a public high school was encouraged by stakeholders to scale new models of STEM education.

The Research Triangle High School (RTHS) is an independent, public charter high school serving over 550 students, with approximately 60 percent identifying as students of color. RTHS leverages industry partnerships within RTP to provide a rigorous and career-focused STEM curriculum, complete with internships and lab-based projects for students, which supports a direct pathway into college. RTHS provides options for students to take AP courses and community college and UNC system courses. RTHS offers a model for strengthening STEM learning in classrooms through enhanced curricula and hands-on, engaging lab experiments providing clear pathways and programs into two- and four-year degree programs. The school is supported by UNC School of Medicine and NC State University, as well as employers such as IBM, Cisco, and Biogen. Of the 121 students enrolled in the class of 2024, over 80 percent enrolled in a four-year college and 17 percent in a two-year college.

Lessons for Kips Bay Science District

As a leader in innovation and life sciences, RTP demonstrates that the creation of a high school was needed to support the RTP District's talent development at an early stage as supported in this report's second recommendation. It also acknowledges the importance of connecting high schools with four-year degree institutions, building a strong career pipeline so talent can expand access and opportunities beyond their high school degree. While the school benefits from the co-location with employers, allowing for direct input into curriculum and internship opportunities, it also allows employers to network with early talent. Kips Bay's high school and STEAM Center can similarly benefit from the co-location and the connections with industry partners and higher education to support effective training for high school talent.



SOURCE: NYCPS, College Now

COLLEGE NOW

College Now is a FREE college transition, dual-enrollment program for NYCPS high school students, enabling students to develop academic momentum towards a college degree.

College Now, a partnership between CUNY and NYCPS, is a college transition dual-enrollment program for high school students. During the 2023-24 school year, the program engaged 28,268 students from 535 high schools to complete almost 40,000 unique course enrollments. College Now offers a variety of college credit courses in different subject areas to increase exposure among students, including biology, chemistry, psychology, engineering, computer sciences, and other health- and life-sciences-related coursework. It enables high school students to develop academic momentum towards a college degree while providing them with an opportunity to earn free college credits in high school.

CUNY's STEM Research Academy (STEM RA)—an advanced program within CUNY's College Now program—strengthens the career pipeline into healthcare by offering STEM-focused coursework, paid work experience, and mentoring. This comprehensive approach equips participants with essential skills and professional connections, ensuring students are better prepared for successful healthcare careers.

Lessons for Kips Bay Science District

Dual-enrollment programs can jumpstart a student's higher-education journey while saving on tuition expenses, providing a smoother transition to college for students. Career-pathway-aligned dual enrollment and dual credit can specifically address access to underserved student populations and accelerate degree completion. Given the health and life sciences ecosystems' reliance on degrees, scaling College Now would support talent in the transition to college, which is essential to strong education-to-workforce pipelines in the District.



SOURCE: NYCEDC, LifeSci Internship Program

NEW YORK CITY ECONOMIC DEVELOPMENT CORPORATION LIFESCI INTERNSHIP PROGRAM

NYCEDC's LifeSci Internship Program has supported over 1,000 students to develop the next generation of life sciences leaders.

Providing quality paid internships for undergraduate and graduate students, NYCEDC's LifeSci Internship Program seeks to develop the next generation of life sciences leaders. The program engages employers to identify internship opportunities, performs initial recruitment and screening processes, and subsidizes wages for CUNY students and interns placed with small businesses and nonprofit organizations. The program is open to all students who are from the City or currently enrolled in New York City-based colleges, or universities. Interns are invited to participate in a range of pre-internship bootcamp training programs, networking receptions, career panels, and site tours to support professional networking and exposure.

To date, the NYCEDC LifeSci Internship Program has placed over 1,000 New York students in life sciences internships at 220 businesses. It has supported students from diverse backgrounds, with 58 percent of participants identifying as female, 14 percent as Black, and 15 percent as Latino. The program has led to longer-term opportunities with 43 percent of students receiving offers to continue in their role.

Lessons for Kips Bay Science District

Kips Bay partners can leverage the LifeSci Internship Program in a number of ways. Employers can directly hire interns, and CUNY can support a pipeline of talent, grow earn-and-learn opportunities, and engage employers to build networking and mentorship opportunities for talent in the District.

RECOMMENDATION #3:**Develop sector-specific, industry-driven training programs for talent into priority occupation career tracks****CHALLENGE ADDRESSED**

Healthcare, life sciences, and public health each have unique talent challenges, including:

- **Healthcare:** Critical labor shortages exist across all levels of nursing, including a trainer shortage. While programs exist, scaling them remains a challenge.
- **Life Sciences:** Career pathways within life sciences are not as clearly defined as in healthcare due to the ecosystem's ever-evolving nature and technological advancements. Partnerships are necessary among employers and providers to identify inroads to job training to support low- to mid-skill workers and diversify talent into this field.
- **Public Health:** A number of public health's largest occupations have wages lower than the living wage threshold, and those occupations that require a four-year degree do not offer the same boost to wages seen in other occupations. Supporting upskilling partnerships between employers and CUNY can provide talent with pathways to advancement and stronger wages.

These challenges must be tackled by each sector. Research shows that sector-specific employment programs lead to substantial increases in earnings, training, and career services received, as well as attainment of occupational credentials and certificates. Priority occupations and recommendations are therefore sector-specific.

OVERVIEW & IMPLEMENTATION STEPS

Ensuring career pathways are clear and offer strong support structures will be core to the success of the District's health and life sciences ecosystems. Training will follow workforce best practices including employer-driven programming, robust wraparound services, and strong outcomes tracking. Programs will also include pathways for young talent and adult learners.

1. Develop and scale industry-driven job training programs focused on the District's priority occupations

- a. Scale existing programs to support recruitment and advancement of nurses, such as the Evelyn Lauder Community Care Nurse Practitioner Program in the Hunter-Bellevue School of Nursing at CUNY Hunter College, which increases the number of nurse practitioners entering the workforce and accelerates their time to graduation, easing the financial burden of training and advancing their career pathways.
- b. Develop job training programs for non-clinical lab technicians, with CUNY and providers collaborating with new life sciences employers (noted below).
- c. Develop upskilling opportunities for NYC H+H public health employees, allowing adult learners to advance through scalable programs in NYC. NYC H+H employs talent with critical experience working in the field who need additional formal credentials to advance.

2. Convene Kips Bay's life sciences employers to develop a district-specific program for low- to mid-skill workers

- a. Convene NYU Langone, Deerfield Cure-affiliated companies, and other Kips Bay life sciences employers to partner with workforce providers and anchor tenants to develop and scale training programs for low- to mid-skill workers.

- b. Develop initiatives that incentivize onsite private sector companies to host interns and hire talent, including providing access for pre-screened, high-quality talent and building opportunities for employer talent connections.
- c. Scale or develop employer-driven opportunities into life sciences entry-level and mid-level priority occupations (e.g., lab technicians), engaging workforce providers and employers.

Note: Creating sufficient pipelines will be key to ensuring success for these pathways and programs—both by increasing capacity within traditional education pipelines and through alternative, innovative working and learning models that accelerate training and shorten workers’ time to licensure (e.g., mediums such as virtual reality, augmented reality, and hi-fidelity simulation).

BALTIMORE ALLIANCE FOR CAREERS IN HEALTHCARE; BALTIMORE, MD

This public-private partnership connects employers, educators, and community-based organizations to enable apprenticeships and internships that lead to hiring, credentialing, and upskilling in health careers for youth and adults.

The Baltimore Alliance for Careers in Healthcare (BACH) was founded as a systematic, employer-led approach to fill critical shortages at Baltimore-area hospitals through entry-level training programs and career advancement support. BACH addresses the dual problems of healthcare hiring shortages and Baltimore’s poverty rate with the thesis that good jobs create stronger, healthier communities. Its programs have served over 2,200 workers. The Alliance reports that 86 percent of participants are Black and 83 percent are female. BACH implements a range of programs including:

- **Youth Immersion Program:** 35 local high school juniors and seniors per summer undertake a five-week, paid summer internship shadowing health professionals, gaining on-the-job experience, and learning medical technology. Participants get support planning a path to college, certification, or the workforce.
- **Pre-Employment Training:** The BACH Training Institute offers free training for multiple tracks based on needs identified by healthcare employers. Examples include training for certified nursing assistants, medical assistants, and various technicians.
- **BACH Apprenticeship Program:** BACH partners with employers and educational institutions to provide apprenticeship programs for current healthcare employees as well as underemployed immigrants and refugees. There are currently five apprenticeship options, and candidates receive a salary with benefits, a career coach, and support services.

BACH reports that 75 percent of talent completes training, and nearly all of those who complete their program earn industry-recognized credentials. For the BACH apprenticeship specifically, 100 percent of respondents retained employment after the apprenticeship.

Lessons for Kips Bay Science District

BACH demonstrates the importance of convening public-private partnerships as part of its approach toward addressing hiring shortages in healthcare. As a collaborative, they analyzed labor data to inform career-targeted programs for talent leveraging multiple partners, a clear replicable model for Kips Bay.



SOURCE: Hunter-Bellevue School of Nursing

CUNY HUNTER-BELLEVUE SCHOOL OF NURSING'S EVELYN LAUDER COMMUNITY CARE NURSE PRACTITIONER PROGRAM

This opportunity answers the city's growing demand for nurse practitioners with a program focused on creating accessible, high-quality career pathways.

The Hunter-Bellevue School of Nursing's Evelyn Lauder Community Care Nurse Practitioner Program at CUNY Hunter College works to increase the number of nurse practitioners entering the workforce by accelerating students' time to graduation and easing the financial burden of their training through fellowships that provide substantial financial support. The Evelyn Lauder Nurse Practitioner Program supports 25 student fellowships and provides funding for senior nurse practitioner faculty and other program resources and student support. The program includes a strong partnership between CUNY Hunter and NYC H+H, in which CUNY Hunter students train in NYC H+H community-based hospitals and clinics throughout the NYC boroughs. This approach provides nurse practitioner students with real-world experience and establishes a strong talent pipeline between the organizations.

Launched in 2022, the Lauder Nurse Practitioner Program increases accessibility and pathways for the many nurses interested in advanced education while advancing health equity and catalyzing high-quality healthcare in underserved communities across New York City, where nearly all of CUNY Hunter's nursing graduates remain to serve after graduation.

Lessons for Kips Bay Science District

Scaling existing programs like the Evelyn Lauder Community Care Nurse Practitioner Program will provide the scaffolding needed to support advancing talent's careers in the District.

RECOMMENDATION #4:

Create an independent organization led by SPARC's anchor tenants to drive district training and engagement

CHALLENGE ADDRESSED

SPARC anchor tenants and the broader Task Force expressed interest in establishing a more formal entity to encourage collaboration and support the partners in executing these recommendations. Community organizations that were engaged throughout this process also expressed interest in collaborating with each other and with members of the Task Force.

Workforce development is not stagnant. Programs and partnerships will continue to evolve to meet these new needs. Ensuring the District's workforce programs are responsive to changing skillsets, industry demands, and talent needs is critical to the sustainability of the District and expanding employment opportunities and economic mobility for all New Yorkers.

OVERVIEW & IMPLEMENTATION STEPS

A governance entity could support the initiation and scaling of programs among groups and anchor tenants and would be essential to sustaining those partnerships and investments over time. This entity would act as the on-the-ground partner to identify where opportunities exist and implement them with partners to deliver on the District's goals. A governance entity also has the unique position to motivate additional partners to participate by becoming a one-stop-shop for employers and providers and by creating a clear platform and implementation plan.

Acting as a collaborative, this organization would create guiding principles and governing structures to manage programs that advance the District's workforce development and engage with local community organizations. Its focus would be to ensure industry-driven, equitable pathways with clear support structures for talent into Kips Bay priority occupations.

- **Develop a steering committee** composed of anchor institutions, employers, and community organizations that sets its strategy, targets, and accountability.
- **Act as a connector between committee members and additional stakeholders** by providing technical assistance to get programs off the ground and meet collective goals. This entity could organize regularly scheduled gatherings to promote information sharing and collective problem solving.
- **Promote accountability and progress** by ensuring annual reporting by member organizations to indicate successes and remaining work to accomplish.

MISSOURI TECH FIRST INITIATIVE; ST. LOUIS, MO

Investing in a stronger, more connected tech workforce ecosystem that diversifies talent in high-growth industries, the Cortex Innovation District secured a \$7 million grant to support apprenticeships and partner-led job-training programs with wraparound services.

The Cortex Innovation District was established in 2002 by five St. Louis anchor institutions—Washington University, BJC HealthCare, Saint Louis University, Missouri Botanical Garden, and the University of Missouri-St. Louis—who collectively pledged \$29 million in equity to acquire land on a former industrial site. Initially founded as an economic development engine for commercializing medical and biotechnology, Cortex now prioritizes attraction, entrepreneurship, and talent development in life sciences, technology, and cybersecurity.

Innovation districts invest in talent pipelines

Cortex launched the Missouri Tech First Initiative, a regional effort to provide free job training and certification for all Missouri residents, especially those underrepresented in bioscience, technology, and cybersecurity. The Initiative has established partnerships with the Chamber, the Tech Council of Greater St. Louis, Tabernacle Community Development Corporation, and more than ten training partner organizations. Cortex also expanded a multitude of programs to further the City and Innovation District's talent needs, including:

- **Tech training:** Cortex leveraged recent funding to partner with several training providers including CompTIA, LaunchCode, NPower, and Per Scholas. These short-term programs support underrepresented talent in tech jobs with a combination of classroom and on-the-job training as well as wraparound services.
- **BioSTL apprenticeship:** BioSTL, a Cortex-based innovation hub, is launching a biotech-focused apprenticeship program. They intend to recruit participants from the community and provide wraparound services, including childcare and transportation.
- **Employer engagement:** Cortex partners with the St. Louis Agency on Training and Employment (SLATE) to connect jobseekers and employers in the District. Missouri Tech First's HIRENOW initiative engages employers to rethink hiring requirements and asks corporate partners to participate in mentoring activities and sign a pledge to consider hiring candidates who have successfully completed in-District programs.

Lessons for Kips Bay Science District

Missouri Tech First Initiative demonstrates the necessity for innovation districts to invest in talent pipelines to ensure that nearby residents benefit from growth, and to support the long-term success of high-growth industries. After recognizing this need, Cortex unified its workforce efforts to more effectively attract funding for industry-driven training. Its leadership allows the Cortex Innovation District and its partners to develop programs that meaningfully serve high school to adult-age participants. Training opportunities at each level connect directly to jobs in the Cortex Innovation District while providing support to eliminate barriers for participants.





Next Steps

Together, partners will identify and seek to fill gaps in career pathways to develop, advance, and scale programs that support talent into the priority occupations. While this report provides analysis and recommendations to advance the Kips Bay Science District's efforts, the Task Force acknowledges there is much work to be done.

In 2025, the Task Force will establish a curated steering committee devoted to articulating a time-bound action plan to advance each of the recommendations expressed in this report. This will necessitate a series of planning sessions to ensure the intentionality of efforts to support the District, the ecosystem, and most importantly, New Yorkers. Most essential to that effort will be to explore creating, convening, and launching an independent organization led by SPARC's anchor tenants (Recommendation #4) to drive this work forward. There is work the governance entity could and should begin to tackle now to bring together large institutions and community-based organizations to facilitate collaboration, ensuring the recommendations in this report are executed.



SOURCE: NYCPS and Northwell Health.

Appendix

Acknowledgements

This report reflects the hard work and dedication of NYCEDC, NYC Talent, the Kips Bay Science District Education and Workforce Task Force, and more. The success of this effort would not have been possible without many stakeholders' involvement and care. Thank you to those who've contributed their time to help support this report.

Kips Bay Science District Education and Workforce Task Force members

Special thanks to the Kips Bay Science District Education and Workforce Task Force, who drove the findings of this report through their participation in Task Force meetings, working group sessions, and interviews.

Interview Participants

Neda Afsarmanesh, Associate Director of Research Strategy, NYU Langone Health

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Patti Boyce, University Dean for Health and Human Services, Nursing, CUNY

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Ben Dubin-Thaler, Founder and Executive Director, BioBus

Calaine Hemans-Henry, Assistant Commissioner, Bureau of Workforce Development & Training, Department of Health & Mental Hygiene

Angie Kamath, Dean, NYU School of Professional Studies

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PINGPONG DESIGN



Methodology & Analysis

Labor Analysis Methodology

Ecosystem Definition & Occupational

Analysis: HR&A developed an analytical methodology to capture the entirety of New York City’s health and life sciences ecosystems across all five boroughs. HR&A conducted a comprehensive review of existing literature and precedents, reviewing the definitions and core functions of each ecosystem. This began by reviewing over 30 relevant reports to understand ecosystem definitions used by institutions across all three ecosystems individually—healthcare, life sciences, and public health. Through this, HR&A developed and refined a list of relevant industries and occupations and established a working definition for each individual ecosystem based on their core purpose and activity. HR&A then validated each working definition through engagement with stakeholders. Each ecosystem’s definition includes both ecosystem-specific jobs (e.g., doctors, chemists) as well as supporting roles within ecosystem-specific organizations (e.g., HR managers, accountants) that are unique to that ecosystem.

NYCEDC’s life sciences industry definition was used as per NYCEDC’s 2022 report titled **Life Sciences in the NYC Metro**. For healthcare, HR&A and NYCEDC heavily built from CHWS’s 2018 report **Emerging Roles and Occupations in the Health Workforce**. For the healthcare definition, Lightcast isolates all public ownership jobs into a separate NAICS code. Assuming the same staffing patterns as the private ownership entities, HR&A isolated the public share of jobs for each ecosystem and added them to the sizing estimates. Staffing patterns refer to the number of workers in an industry classified by the types of occupation they perform. Lightcast also does not include NAICS 923120—Administration of Public Health Programs in its classification. Using the ratio of jobs in this NAICS from BLS data, HR&A isolated the Administration of Public Health Programs jobs and added them to the sizing estimates.

Unlike the other two sectors, public health has rarely been defined. Building off definitions by New York Department of Health (DOH), BMCC, and California Department of Public Health, as well as engagement with public health experts from DOH, BMCC, CUNY SPH, and NYC H+H, methodology focused on an occupational-based analysis of public health, preparing a detailed map of each identified industry and core occupations with justifications to match the written definition. To define the entire ecosystem, this analysis removed any duplicate occupations that exist in multiple ecosystems.

Industries are based on the 2022 NAICS codes as defined by the US Census Bureau. Occupations are based on the 2018 Standard Occupational Classification (SOC) codes as defined by the Bureau of Labor Statistics and the Occupational Information Network (O*NET), a comprehensive database of occupational attributes and characteristics which uses questionnaires to collect data on the educational levels and skills required to effectively perform a job.

Further, HR&A used the average of demographic and wage information for the various occupations, weighted by the occupational share in the ecosystem to arrive at the demographic and wage composition numbers discussed in this report.

Labor Data: In analyzing characteristics of the health and life sciences ecosystems, HR&A used Lightcast. Lightcast (formerly known as EMSI Burning Glass) is a leading national provider of employment data and economic impact analysis. Lightcast clients include the New York State Department of Labor, North Carolina Department of Commerce, and Oklahoma Department of Commerce. HR&A utilized Lightcast’s Analyst tool to estimate the size of the New York City health and life sciences ecosystems (including life sciences, healthcare, and public health) and its associated

wages, educational requirements, and demographics. Lightcast gathers and integrates labor market data from a wide array of sources, including the US Bureau of Labor Statistics Quarterly Census of Employment and Wages (QCEW) and Occupational Employment Statistics (OES), US Bureau of Economic Analysis, O*NET, US Census Bureau American Community Survey (ACS) and County Business Patterns (CBP), and state departments of labor. Integrating data from multiple sources allows Lightcast to provide a broad accounting of employment that is unavailable from any one traditional source. HR&A relied on Lightcast data pertaining to three classes of workers:

1. QCEW/UI employees: All jobs covered by federal/state unemployment insurance.
2. Non-QCEW employees: Jobs exempt from unemployment insurance coverage including the military, railroads, and small nonprofits.
3. Self-Employed: Jobs held by people who consider self-employment a significant part of their income.

Lightcast's proprietary estimation process enables it to accurately report detailed data for every county in the United States, and even employment data which is undisclosed by government sources due to confidentiality issues. Lightcast reports industry-level data to the six-digit NAICS code, and occupational data to the five-digit SOC code. Moreover, Lightcast provides a "crosswalk" between industry and employment data (staffing patterns and inverse staffing patterns) that enabled HR&A to account for core jobs in core industries, core jobs in non-core industries, and non-core jobs in core industries. Lightcast also reports the most common educational or training requirements for each of the 800+ SOC codes based upon data from the US Bureau of Labor Statistics.

Economic Impact Analysis: HR&A's economic impact analysis estimates the multiplier effects of the health and life sciences ecosystems in the economy in terms of jobs, earnings, and economic output. HR&A utilized the IMPLAN input-output model to estimate the economic impacts of the health and life sciences ecosystems and looked at income tax and sales tax generated by the ecosystem to determine the overall fiscal impact.

HR&A designated the five boroughs of New York City as the study area. The economic impact study is designed to measure the impact of existing employment in the health and life sciences ecosystems in terms of employment, employee compensation, and economic output (spending) generated:

- Employment includes full-time and part-time jobs.
- Employee compensation includes wage and salary income as well as employee benefits and employer-paid payroll taxes.
- Economic output is the total value of production across all industries in the economy. It is equivalent to total spending in the economy.

Healthcare includes the diagnosis, treatment, and care of people suffering from sickness and injuries, including direct support in these activities.

Healthcare Industries

621111	Offices of Physicians (except Mental Health Specialists)
621112	Offices of Physicians, Mental Health Specialists
621210	Offices of Dentists
621310	Offices of Chiropractors
621320	Offices of Optometrists
621330	Offices of Mental Health Practitioners (except Physicians)
621391	Offices of Podiatrists
621399	Offices of All Other Miscellaneous Health Practitioners
621491	HMO Medical Centers
621492	Kidney Dialysis Centers
621498	All Other Outpatient Care Centers
621610	Home Health Care Services
622110	General Medical and Surgical Hospitals
622210	Psychiatric and Substance Abuse Hospitals
622310	Specialty (except Psychiatric and Substance Abuse) Hospitals
623110	Nursing Care Facilities (Skilled Nursing Facilities)
621991	Blood and Organ Banks
621493	Freestanding Ambulatory Surgical and Emergency Centers
621910	Ambulance Services
621999	All Other Miscellaneous Ambulatory Health Care Services
621340	Offices of Physical, Occupational and Speech Therapists, and Audiologists
621410	Family Planning Centers
621420	Outpatient Mental Health and Substance Abuse Centers
624120	Services for the Elderly and Persons with Disabilities
623210	Residential Intellectual and Developmental Disability Facilities
623220	Residential Mental Health and Substance Abuse Facilities
623311	Continuing Care Retirement Communities
623312	Assisted Living Facilities for the Elderly
623990	Other Residential Care Facilities
621511	Medical Laboratories
621512	Diagnostic Imaging Centers

Healthcare Occupations

11-9111	Medical and Health Services Managers
19-1042	Medical Scientists, Except Epidemiologists
19-3033	Clinical and Counseling Psychologists
19-3039	Psychologists, All Other
29-1011	Chiropractors
29-1021	Dentists, General
29-1022	Oral and Maxillofacial Surgeons
29-1023	Orthodontists
29-1024	Prosthodontists
29-1029	Dentists, All Other Specialists
29-1031	Dietitians and Nutritionists
29-1041	Optometrists
29-1051	Pharmacists
29-1071	Physician Assistants
29-1081	Podiatrists
29-1122	Occupational Therapists
29-1123	Physical Therapists
29-1124	Radiation Therapists
29-1125	Recreational Therapists
29-1126	Respiratory Therapists
29-1127	Speech-Language Pathologists
29-1128	Exercise Physiologists
29-1129	Therapists, All Other
29-1131	Veterinarians
29-1141	Registered Nurses
29-1151	Nurse Anesthetists
29-1161	Nurse Midwives
29-1171	Nurse Practitioners
29-1181	Audiologists
29-1211	Anesthesiologists
29-1212	Cardiologists

29-1213	Dermatologists
29-1214	Emergency Medicine Physicians
29-1215	Family Medicine Physicians
29-1216	General Internal Medicine Physicians
29-1217	Neurologists
29-1218	Obstetricians and Gynecologists
29-1221	Pediatricians, General
29-1222	Physicians, Pathologists
29-1223	Psychiatrists
29-1224	Radiologists
29-1229	Physicians, All Other
29-1241	Ophthalmologists, Except Pediatric
29-1242	Orthopedic Surgeons, Except Pediatric
29-1243	Pediatric Surgeons
29-1249	Surgeons, All Other
29-1291	Acupuncturists
29-1292	Dental Hygienists
29-1299	Healthcare Diagnosing or Treating Practitioners, All Other
29-2031	Cardiovascular Technologists and Technicians
29-2032	Diagnostic Medical Sonographers
29-2033	Nuclear Medicine Technologists
29-2034	Radiologic Technologists and Technicians
29-2035	Magnetic Resonance Imaging Technologists
29-2036	Medical Dosimetrists
29-2042	Emergency Medical Technicians
29-2043	Paramedics
29-2051	Dietetic Technicians
29-2052	Pharmacy Technicians
29-2053	Psychiatric Technicians
29-2055	Surgical Technologists
29-2056	Veterinary Technologists and Technicians
29-2057	Ophthalmic Medical Technicians
29-2061	Licensed Practical and Licensed Vocational Nurses

29-2072	Medical Records Specialists
29-2081	Opticians, Dispensing
29-2091	Orthotists and Prosthetists
29-2092	Hearing Aid Specialists
29-2099	Health Technologists and Technicians, All Other
29-9021	Health Information Technologists and Medical Registrars
29-9091	Athletic Trainers
29-9093	Surgical Assistants
29-9099	Healthcare Practitioners and Technical Workers, All Other
31-1132	Orderlies
31-1133	Psychiatric Aides
31-1121	Home Health Aides (Combined with Personal Care Aides in Lightcast)
31-1122	Personal Care Aides (Combined with Home Health Aides in Lightcast)
31-2011	Occupational Therapy Assistants
31-2012	Occupational Therapy Aides
31-2021	Physical Therapist Assistants
31-2022	Physical Therapist Aides
31-9011	Massage Therapists
31-9091	Dental Assistants
31-9092	Medical Assistants
31-9093	Medical Equipment Preparers
31-9094	Medical Transcriptionists
31-9095	Pharmacy Aides
31-9097	Phlebotomists
31-9099	Healthcare Support Workers, All Other
29-2011	Medical and Clinical Laboratory Technologists*
29-2012	Medical and Clinical Laboratory Technicians*
31-1131	Nursing Assistants

Life Sciences Definition: Combined applications of biology and technology for the advancement of humanity, including the study of living organisms

Life Sciences Industries	
325411	Medicinal and Botanical Manufacturing
325412	Pharmaceutical Preparation Manufacturing
325413	In-Vitro Diagnostic Substance Manufacturing
325414	Biological Product (except Diagnostic) Manufacturing
334510	Electromedical and Electrotherapeutic Apparatus Manufacturing
334517	Irradiation Apparatus Manufacturing
339112	Surgical and Medical Instrument Manufacturing
339113	Surgical Appliance and Supplies Manufacturing
339114	Dental Equipment and Supplies Manufacturing
339115	Ophthalmic Goods Manufacturing
339116	Dental Laboratories
541713	Research and Development in Nanotechnology
541714	Research and Development in Biotechnology
541715	Research and Development in the Physical, Engineering, and Life Sciences
621511	Medical Laboratories*
621512	Diagnostic Imaging Centers*

Life Sciences Occupations	
11-9121	Natural Sciences Managers
17-2031	Bioengineers and Biomedical Engineers
17-2041	Chemical Engineers
17-2131	Materials Engineers
17-2141	Mechanical Engineers
19-1021	Biochemists and Biophysicists
19-1022	Microbiologists
19-1029	Biological Scientists, All Other
19-1042	Medical Scientists, Except Epidemiologists*
19-1099	Life Scientists, All Other

19-2031	Chemists
19-4021	Chemical Technicians
19-4099	Life, Physical, and Social Science Technicians, All Other
29-2011*	Medical and Clinical Laboratory Technologists*
29-2012*	Medical and Clinical Laboratory Technicians*

Public Health Definition: Improving and promoting the health of populations, including preventing populations from sickness and injury.

Public Health Industries

923120	Administration of Public Health Programs
624210	Community Food Services
624230	Emergency and Other Relief Services
813212	Voluntary Health Organizations
621410	Family Planning Centers*

Public Health Occupations

19-1041	Epidemiologists
19-2041	Environmental Scientists and Specialists, Including Health
19-4042	Environmental Science and Protection Technicians, Including Health
21-1015	Rehabilitation Counselors
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors
21-1019	Counselors, All Other
21-1022	Healthcare Social Workers
21-1023	Mental Health and Substance Abuse Social Workers
21-1029	Social Workers, All Other
21-1091	Health Education Specialists
21-1093	Social and Human Service Assistants
21-1094	Community Health Workers
21-1099	Community and Social Service Specialists, All Other
29-9092	Genetic Counselors

Key Reports Analyzed to Support This Report

- [A Decade of Growth: New York's Life Sciences Industry, Partnership Fund for New York City](#)
- [Impact: Healthier, Longer Lives for New Yorkers, Fund for Public Health NYC](#)
- [Current Health Care Employment in New York State by Setting and Region, Center for Health Workforce Studies](#)
- [Emerging Roles and Occupations in the Health Workforce, Center for Health Workforce Studies](#)
- [Healthcare Reform and the New York Landscape, New York Alliance for Careers in Healthcare](#)
- [Unequal Ground: The Impact of Industrial and Occupational Segregation on Women's Economic Outcomes in New York City, Women Creating Change and the New School Center for New York City Affairs](#)
- [Significant Industries: A Report to the Workforce Development System, New York Bureau of Labor Market Information and Division of Research and Statistics](#)
- [Strategies for Enumerating the US Governmental Public Health Workforce, A Joint Report of the Center of Excellence in Public Health Workforce Studies, School of Public Health, University of Michigan, and the Center of Excellence in Public Health Workforce Research and Policy, College of Public Health, University of Kentucky](#)
- [The Health Care Workforce in New York State: Trends in the Supply of and Demand for Health Care Workers, Center for Health Workforce Studies](#)
- [New York Life Science Ecosystem Study, HR&A and Regeneron](#)
- [Life Sciences in the NYC Metro, NYC Planning and NYCEDC](#)
- [Annual Report, NY Office of Strategic Workforce Development and NY Empire State Development](#)
- [SRMC 2024 Visual Report](#)
- [CUNY HHS Nursing Programs](#)
- [SPARC Master Plan](#)
- [HSPH Harvard](#)

Endnotes

ⁱ [Mayor Adams Signs Bill to Bolster New York City's Life Sciences Sector, December 2023.](#)

ⁱⁱ Economic output includes direct, indirect, and induced activity.

ⁱⁱⁱ Workers can qualify as Registered Nurses with a two-year degree but must obtain a Bachelor of Science in Nursing within 10 years.

^{iv} [MDRC Sector-Based Training Programs, February 2024.](#)

^v [Pathways to an Inclusive Economy: An Action Plan for young Adult Career Success](#)

^v [Announced by Mayor Adams in December 2023, The Action Plan for Young Adult Career Success seeks to unify, break silos and leverage resources to create, expand, and support robust career pathways for all New York City young people.](#)

EMPOWERING KIPS BAY'S FUTURE WORKFORCE:

The Kips Bay Science District Education &
Workforce Vision

NYC / EDC

Testimony

Of

Robert D. Van Pelt, Esq., Chief of Staff

NYC Office of Chief Medical Examiner

Before the

New York City Council Subcommittee on Zoning and Franchises

Regarding T2025-2943

Application number C 240373 PMC (SPARC Kips Bay)

January 9, 2025

Good morning, Chair Riley and members of the Subcommittee on Zoning and Franchises. Thank you for the opportunity to testify today on the SPARC Kips Bay project. My name is Robert Van Pelt, and I am the Chief of Staff at the New York City Office of Chief Medical Examiner (OCME).

OCME's mission is two-fold: to protect public health and to serve impartial justice through forensic science and medicine. OCME investigates and takes jurisdiction over 12,000 deaths annually in New York City and test thousands of items of evidence in our laboratories. The results of our work inform legal proceedings, shape public health policy, and help families settle their affairs. OCME also serves as the City's mortuary, with a legal mandate to take custody of all unidentified and unclaimed remains in the five boroughs.

It's long been our goal to move our 24/7 operations out of the aging facility at 520 First Avenue in Manhattan, which we've occupied since it opened over half a century ago. The building, having served its purpose, has outlived its useful life and is not suitable to support the advanced medical and forensic science innovation carried out there in the future.

We are thrilled that our new state-of-the-art Forensic Pathology Center (FPC) will be housed in this first of its kind health and science campus at SPARC Kips Bay. The addition of OCME's Forensic Pathology Center to the campus will benefit New York both as a renowned training institution and a national leader in forensic science and medicine.

The new SPARC facility will be located directly across from the OCME Hirsch Center for Forensic Science, which houses most of the OCME forensic laboratories, including the largest and most advanced DNA lab in North America. At the DNA lab, over 200 scientists engage in work that helps in the identification of missing persons and handles all DNA testing for the criminal justice system.

Our Forensic Toxicology Lab ("Lab"), currently housed at 520 First Avenue, will be part of this SPARC campus. The Lab is a national leader in addressing the growing universe of substances associated with the nationwide opioid epidemic impacting this City. They conduct tests for over fifty illicit and prescribed opioids, their metabolites, and potentially hundreds of other drugs or chemical toxins. The information found from these tests helps our public health and law

enforcement partners in the City and the region. The Lab also plays a role in training New York City's next generation of scientists. The Forensic Toxicology department hires interns through partnerships with universities such as CUNY John Jay College of Criminal Justice. Many of the scientists presently employed at the Toxicology Lab started as interns with the office. We are excited about the educational possibilities with the synergy we will have with other educational and scientific institutions on the campus.

OCME is also in many respects a medical school, with its principal location to be relocated to the SPARC campus. There are presently roughly 500 board-certified forensic pathologists (medical examiners) in the entire United States, which is a crisis-level shortage, and OCME is fortunate to employ a number of these highly trained physicians right here at the NYC Office of Chief Medical Examiner. This is because OCME has developed its own pipeline for medical examiners with a renowned forensic pathology fellowship program that has trained a significant portion of the top medical examiners working in the country today, and most of our current staff have been hired through this program.

Our Forensic Anthropology Department will also be housed at the SPARC campus. The Anthropology Department leads the City's efforts on all cold cases and in working with OCME DNA scientists on our continued mission to identify the remains of all the victims of the 9/11 World Trade Center attacks to bring closure to their families. The Anthropology Department also leads a robust fellowship and internship program.

We thank you for the opportunity to speak with you today. We look forward to joining the campus, as our presence will enhance SPARC's purpose to support public health and fortify New York City's place as a leader in life sciences innovation.

I look forward to taking any questions that you may have.



PARTNERSHIP FUND for New York City

Testimony of the Partnership Fund for New York City

Maria Gotsch, President & CEO

New York City Council Subcommittee on Zoning and Franchises

SPARC Kips Bay - C 240369 ZMM, C 240370 ZSM, N 240371 ZRM, C 240372 PPM, C 240373

PCM, C 240390 ZSM, C 240391 PQM, C 240309 MMM

January 9, 2025

Thank you, Chair Riley and members of the committee for the opportunity to testify in support of SPARC Kips Bay. The Partnership Fund for New York City (the “Fund”) is the \$130 million investment arm of the Partnership for New York City, dedicated to mobilizing private sector resources and expertise to advance New York City’s standing as a global center of economic opportunity, upward mobility, and innovation.

The Fund was an early catalyst for New York’s life sciences industry. Since 2001, we have committed over \$50 million to support the development of wet lab space, the creation of companies that capitalize on research done at city universities, the growth of city-based biotech companies such as IntraCellular Therapeutics, and the establishment of the IndieBio accelerator.

In 2016 we provided a blueprint for how New York could become a leader in life sciences. Our December 2023 update ([A Decade of Growth: New York’s Life Sciences Industry](#)) shows that the industry has grown substantially in recent years, spurred by commitments of \$1.5 billion from the city and state governments. In addition, preliminary 2024 data shows New York received \$3.5 billion in 2024 in the National Institutes of Health grants that fund the research that fuels the life sciences industry and \$2.3 billion in venture capital funding. All of this investment has New York City life sciences companies employed nearly 18,000 jobs in 2023, up 44% from 12,400 jobs in 2013. The sector had \$4.6 billion in economic output in 2023, up 105% from \$2.3 billion in 2013.

The Science Park and Research Campus (SPARC) in Kips Bay will further this success. It will strengthen the strong cluster of entities focused on life sciences developing on the east side of Manhattan including the Alexandria Center for Life Science (29th St. & 1st Ave.), Innovation East (455 1st Avenue), and the many academic medical institutions.

In addition to space for life science research labs for companies of all sizes, SPARC will provide new space for health and science education including the Hunter College School of Nursing, the CUNY Graduate School of Health & Health Policy, the Borough of Manhattan Community College health care programs, and a health- and science-focused public high school. These educational programs can serve as a pipeline from local schools to careers in the life sciences industry.

As a member of the SPARC Community Task Force, I can attest to the robust public engagement process that has informed the development of this project. Input was solicited from a wide range of stakeholders and local residents to ensure that the project will serve all impacted stakeholders.

I strongly urge you to approve SPARC Kips Bay. Thank you.

From: [Sophie McElroy](#)
To: [Land Use Testimony](#)
Subject: [EXTERNAL] SPARC City Council ULURP Hearing
Date: Monday, January 6, 2025 7:51:29 PM

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. Report suspected phishing emails with the Phish Alert Button or forward them to phish@oti.nyc.gov as an attachment.

Good evening,

My name is Sophie McElroy and I am the highschool representative of the SPARC Community Task Force. I will not be able to attend the hearing on the 9th, however I would like to provide a testimony.

Having lived in Stuy Town my entire life makes me eager to see the new opportunities SPARC will provide. Whether it be used by students at the new high school in their internships, or at SPARC Square and the new pedestrian bridge, the potential SPARC provides is infinite. I am delighted to explore the green spaces and participate in communal events with my friends and family. I feel grateful for the opportunity to serve on the SPARC Community Task Force and share my views on what I hope will benefit the community. I am very excited for the SPARC project to come to life and see all the benefits put to use.

Thank you so much!

Best,

Sophie McElroy

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

in favor in opposition

Date: _____

(PLEASE PRINT)

Name: Mary Mullally

Address: _____

I represent: David Roche

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

in favor in opposition

Date: 1/9/25

(PLEASE PRINT)

Name: EMILY GILLIBUST

Address: _____ PROSPECT AVE

I represent: myself

Address: _____ PROSPECT AVE

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. Prospect Ave Res. No. _____

in favor in opposition

Date: _____

(PLEASE PRINT)

Name: Neil S Miller

Address: _____ 6th Ave

I represent: _____

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. Arrow Line Res. No. 2

in favor in opposition

Date: 1/9

(PLEASE PRINT)

Name: Michael Feinberg

Address: [Redacted] Brooklyn, NY 11215

I represent: _____

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

58

I intend to appear and speak on Int. No. _____ Res. No. _____

in favor in opposition

Date: January 9th, 2025

(PLEASE PRINT)

Name: Samiya Rubaiya

Address: [Redacted] Chester Avenue

I represent: 441 and 467 Prospect Ave

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. Arrow Res. No. _____

in favor in opposition

Date: 1/9/2025

(PLEASE PRINT)

Name: Bruno GRANDSARD

Address: [Redacted] Prospect Park West, Brooklyn 11215

I represent: _____

Address: _____

Please complete this card and return to the Sergeant-at-Arms

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. SPARC Res. No. _____
 in favor in opposition

Date: _____

(PLEASE PRINT)

Name: Cleveland City

Address: _____

I represent: Local Union 3

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. SPARC Res. No. _____
 in favor in opposition

Date: _____

(PLEASE PRINT)

Name: Michael Berman

Address: _____

I represent: myself

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____
 in favor in opposition

Date: 1/9/25

(PLEASE PRINT)

Name: Rachel Fee

Address: _____

I represent: myself

Address: Project : Prospect Ave

Please complete this card and return to the Sergeant-at-Arms

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

[]

I intend to appear and speak on Int. No. ARROW LINEN Res. No. _____

in favor in opposition

Date: 01/09/2025

(PLEASE PRINT)

Name: SAMIR LAVINGIA

Address: [REDACTED]

I represent: OPEN NEW YORK

Address: 80 BROADST FLS

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

[]

I intend to appear and speak on Int. No. _____ Res. No. _____

in favor in opposition

Arrow Linen

Date: _____

(PLEASE PRINT)

Name: MARIA SCARVALONE

Address: [REDACTED] BROOKLYN, NY

I represent: myself

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

[]

I intend to appear and speak on Int. No. 7834 Res. No. _____

in favor in opposition

T2025
PROSPECT AVE REZONE Date: 1-9-25

(PLEASE PRINT)

Name: JAMES O'DONN

Address: [REDACTED] 13K, NY 11215

I represent: Self

Address: _____

Please!!!

THE COUNCIL
THE CITY OF NEW YORK *Allow Rezone*

Appearance Card

50

I intend to appear and speak on Int. No. _____ Res. No. _____

in favor in opposition

Date: _____

(PLEASE PRINT)

Name: ALLOE CARTAGNA

Address: [REDACTED] PROSPECT AVE

I represent: Myself (single mom/renter)

Address: _____

THE COUNCIL
THE CITY OF NEW YORK

Appearance Card

I intend to appear and speak on Int. No. Arrow Line Res. No. _____

in favor in opposition

Date: _____

(PLEASE PRINT)

Name: Luke Lavanway

Address: [REDACTED] Brooklyn 11217

I represent: Myself

Address: _____

THE COUNCIL
THE CITY OF NEW YORK

Appearance Card

I intend to appear and speak on Int. No. 0212 Res. No. _____

in favor in opposition

Date: _____

(PLEASE PRINT)

Name: MADLON GAUTHIER

Address: [REDACTED] Brooklyn

I represent: community member

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. Prospect Ave Res. No. _____

in favor in opposition

Date: 1/09/2025

(PLEASE PRINT)

Name: Kurtis Weatherford

Address: _____

I represent: Myself

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

46

Appearance Card

I intend to appear and speak on Int. No. 44 Prospect Res. No. _____

in favor in opposition

Date: _____

(PLEASE PRINT)

Name: GEORGE THOMAS

Address: _____

I represent: _____

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. 44 Prospect Res. No. _____

in favor in opposition

Date: _____

(PLEASE PRINT)

Name: Marilyn Coppia

Address: _____ Street

I represent: _____

Address: _____

Please complete this card and return to the Sergeant-at-Arms



THE COUNCIL
THE CITY OF NEW YORK

44

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

in favor in opposition

Date: 1/9/25

(PLEASE PRINT)

Name: Erik Nilsson

Address: _____

I represent: Arrow Linen

Address: _____

THE COUNCIL
THE CITY OF NEW YORK

Appearance Card

I intend to appear and speak on Int. No. Arrow Linen Res. No. _____

in favor in opposition

Date: 1/9/2025

(PLEASE PRINT)

Name: OLIVIA GONZALEZ KULLINGSWORTH

Address: _____
Brooklyn, NY 11218

I represent: MUSCIE!

Address: _____

THE COUNCIL
THE CITY OF NEW YORK

Appearance Card

I intend to appear and speak on Int. No. 441 467 Res. No. _____

in favor in opposition

Date: 1/9/25

(PLEASE PRINT)

Name: Damien Andrade

Address: _____

I represent: _____

Address: _____

Please complete this card and return to the Sergeant-at-Arms

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

[]

I intend to appear and speak on Int. No. _____ Res. No. _____

in favor in opposition

Date: 1/9/25

(PLEASE PRINT)

Name: DAVID ROCHE

Address: [REDACTED] PARK 11215

I represent: _____

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

[]

I intend to appear and speak on Int. No. _____ Res. No. _____

in favor in opposition

SPARC Date: _____

(PLEASE PRINT)

Name: Stephen Levin

Address: 4-83 44th Rd LTC

I represent: Solar One

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

[]

I intend to appear and speak on Int. No. Winkler Terrace Res. No. _____

in favor in opposition

Date: _____

(PLEASE PRINT)

Name: Stephen Byrnes

Address: [REDACTED] Prospect Avenue

I represent: _____

Address: _____



Please complete this card and return to the Sergeant-at-Arms



**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

[]

I intend to appear and speak on Int. No. Arrow Res. No. _____
 in favor in opposition

Date: _____

(PLEASE PRINT)

Name: Sean M. Lavigne

Address: [Redacted] Brooklyn NY

I represent: _____

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

[]

I intend to appear and speak on Int. No. Arrow Res. No. _____
 in favor in opposition

Date: 1/09

(PLEASE PRINT)

Name: Alex Maza

Address: [Redacted] Franklin Ave.

I represent: _____

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

[]

I intend to appear and speak on Int. No. _____ Res. No. _____
 in favor in opposition

Date: _____

(PLEASE PRINT)

Name: Eric Olson

Address: [Redacted] Project Ave

I represent: Alphabet

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

Innovation East in favor in opposition

Date: Jan 9, 2025

PANEL

(PLEASE PRINT)

Name: Ben Baccash, Melissa Sacks, Ellen Lehman

Address: Tecoma Park, Ennec, Grand Prince

I represent: _____

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

in favor in opposition

Date: _____

(PLEASE PRINT)

Name: NICOLE CARTAGNA

Address: [Redacted] Prospect Ave

I represent: myself

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. 213 Res. No. _____

in favor in opposition

Date: Jan 1, 2024

(PLEASE PRINT)

Name: Matthew Wagner

Address: [Redacted] Prospect Park SW

I represent: _____

Address: _____

Please complete this card and return to the Sergeant-at-Arms

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. LU 206 Res. No. LU 210 + 211

in favor in opposition

Date: _____

(PLEASE PRINT)

Name: RICHARD LOBEL

Address: C/O SHELDON LOBEL

I represent: 206 GLEASON FUNERAL HOME

Address: 210 + 211 438 CONCORD

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

in favor in opposition

Date: _____

(PLEASE PRINT)

Name: MALCOLM TROUBET

Address: [REDACTED] BROOKLYN NY 11265

I represent: STEAM FITTERS LOCAL 638

Address: 2708 40th AVE Long Island City

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. 44 Prospect Ave Res. No. _____

in favor in opposition

Date: 1/9/25

(PLEASE PRINT)

Name: Alex Ruffalo

Address: [REDACTED] Brooklyn

I represent: _____

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. 44 Pros
 in favor in opposition Prospect Ave.
Date: 01/09/2003

(PLEASE PRINT)

Name: Luiz Torres
Address: _____, Brooklyn
I represent: self
Address: _____, Prospect Ave, Brooklyn

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. 441 Prospect Ave BK Res. No. BK
 in favor in opposition
Date: 1/9/25

(PLEASE PRINT)

Name: Jay Goldberg
Address: _____, Brooklyn NY
I represent: Myself
Address: _____

Testifying on

**THE COUNCIL
THE CITY OF NEW YORK**

- ① 2185 Cagle St.
- ② 4418 467 Prospect
- ③ 455 First Ave

Appearance Card

I intend to appear and speak on Int. No. 5 Res. No. _____
 in favor in opposition
Date: _____

(PLEASE PRINT)

Name: Kaitlyn Schuster
Address: _____, Astoria NY 1103
I represent: SEIU 32BJ
Address: 18 W 25th St NY, NY

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. 441 Prospect Res. No. _____

in favor in opposition

Date: _____

(PLEASE PRINT)

Name: JONATHAN BOKER

Address: _____

I represent: SELF

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. 212 Andrew Res. No. _____

in favor in opposition

Date: _____

(PLEASE PRINT)

Name: Kate McCabe

Address: _____ BK Ny 11214

I represent: Myself

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. 217 Res. No. _____

in favor in opposition

Date: Jan 9, 2005

(PLEASE PRINT)

Name: Andrew Wallach

Address: _____

I represent: Health & Hospitals

Address: _____

Please complete this card and return to the Sergeant-at-Arms

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. 217 Res. No. _____
 in favor in opposition

Date: Jan 9, 2025

(PLEASE PRINT)

Name: Robert Van Pert

Address: _____

I represent: DCME Officer of Chief

Address: Medical Examiner

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. 217 Res. No. _____
 in favor in opposition

Date: Jan 9, 2025

(PLEASE PRINT)

Name: Math Simpson

Address: _____

I represent: CONY

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. 217 Res. No. _____
 in favor in opposition

Date: Jan 9, 2025

(PLEASE PRINT)

Name: Isha Sheth

Address: _____

I represent: Nyc Public Schools

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. 212 Res. No. _____

in favor in opposition

Date: 1/9/25

(PLEASE PRINT)

Name: Ford Harris

Address: _____

I represent: Myself

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. 212 Res. No. _____

in favor in opposition

Date: _____

(PLEASE PRINT)

Name: Scott Neumann

Address: Prospect Avenue Brooklyn, NY

I represent: Housing Not High Rises 112th

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. 217 Res. No. _____

SPARC panel in favor in opposition

Date: Jan 9, 2025

(PLEASE PRINT)

Name: Geeta Kushner, NYC EDC

Address: Julianne Horakowitz, NYC EDC

I represent: Andrew Wallach, A+H

Address: Mitch Gipsan, CUNY

Isha Sheth, NYC Public Schools

Please complete this card and return to the Sergeant-at-Arms

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

212

[]

I intend to appear and speak on Int. No. ARROW LINE Res. No. _____

in favor in opposition

Date: _____

(PLEASE PRINT)

Name: BRIGID A ODEA

Address: PROSPECT AVE

I represent: MYSELF

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

[]

I intend to appear and speak on Int. No. _____ Res. No. _____

in favor in opposition

Date: _____

(PLEASE PRINT)

Name: ALEJANDRO WAIDMAN

Address: BROOKLYN NY

I represent: BRONXCO LLC

Address: 438 CONCORD AVE

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

[]

I intend to appear and speak on Int. No. _____ Res. No. _____

Arrow Line in favor in opposition

Date: 1/9/25

(PLEASE PRINT)

Name: Roger Melzer

Address: Brooklyn 11215

I represent: _____

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

in favor in opposition

Date: _____

(PLEASE PRINT)

Name: Timothy Giller

Address: _____

I represent: Park Slope Civic Council

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

in favor in opposition

Date: 1/9/2025

(PLEASE PRINT)

Name: Felix della PAOLERA

Address: _____

I represent: BRONX COLIC

Address: 138 CONCORD

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

in favor in opposition

Date: _____

(PLEASE PRINT)

Name: Michael Bern

Address: _____

I represent: myself

Address: _____

Please complete this card and return to the Sergeant-at-Arms

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. 0218 Res. No. _____

in favor in opposition

Date: 1-9-25

(PLEASE PRINT)

Name: Michael Jordan

Address: [REDACTED] SI NY 10306

I represent: Local Union #3 I.B.E.W

Address: 158-11 Hamy Van Arsdale Jr. Ave. FUSHING NY 11365

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. 0218 Res. No. _____

in favor in opposition

Date: _____

(PLEASE PRINT)

Name: Michael Piccirillo

Address: [REDACTED]

I represent: NYC Carpenters Union

Address: 395 Hudson St NY NY 10014

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. 3 Res. No. _____

in favor in opposition

Date: _____

(PLEASE PRINT)

Name: Cleveland City

Address: [REDACTED] Ossing, NY 10562

I represent: Local Union 3

Address: _____

Please complete this card and return to the Sergeant-at-Arms

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

VVWP - SPARK

I intend to appear and speak on Int. No. _____ Res. No. _____

in favor in opposition

Date: 1/9/25

(PLEASE PRINT)

Name: ANDREW WALLACH

Address: _____

I represent: NYC H+H / Bellevue

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

in favor in opposition

Date: 1/9/2025

(PLEASE PRINT)

Name: RICHARD BASS

Address: _____

I represent: APPLICANT - COYLE

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

in favor in opposition

Date: _____

(PLEASE PRINT)

Name: Cecilia Kushner

Address: _____

I represent: EDL

Address: 1 Liberty Plaza

Please complete this card and return to the Sergeant-at-Arms

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

in favor in opposition

Date: _____

(PLEASE PRINT)

Name: WELLY HENNESSY

Address: _____ MASSAQUSETTS

I represent: CANNIENDO ARCHITECTS

Address: 38-72 QUEENS BLVD.

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

in favor in opposition

Date: _____

(PLEASE PRINT)

Name: Laura Hulbert

Address: _____ PK, NY 11215

I represent: _____

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

in favor in opposition

Arrow linen Date: 1-9-2005

(PLEASE PRINT)

Name: Jacob Walsh

Address: _____ 10th Ave, BROLYN

I represent: Housing Not Highrises

Address: _____

Please complete this card and return to the Sergeant-at-Arms

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

in favor in opposition

Date: _____

(PLEASE PRINT)

Name: _____

Address: _____ NY NY 10006

I represent: _____ NYC OCM E

Address: _____ NY NY 10006

Please complete this card and return to the Sergeant-at-Arms

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

in favor in opposition

Date: _____

(PLEASE PRINT)

Name: _____ Julieanne Herskowitz

Address: _____

I represent: _____ NYCEDC

Address: _____ 1 Liberty Plaza

Please complete this card and return to the Sergeant-at-Arms