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2018 REGIONAL ECONOMIC LABOR OUTLOOK ALIGNMENT

New York City

Prepared by the CTE Technical Assistance Center of NY

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NEW YORK CITY REGIONAL ECONOMIC LABOR OUTLOOK ALIGNMENT

National Career Clusters	Regional Economic Development Council Focus Industries ¹	Regional Industry Jobs with Strong Projected Growth (> 7% from 2014 through 2024) ²	Jobs in Significant Industries with Strong Projected Growth through 2022 ³	Further Description of Significant Industries
Agriculture, Food and National Resources				
Architecture and Construction	<p>Status of Key Past Priority Projects:</p> <ul style="list-style-type: none"> • The Steiner Studios Media Campus. Phase four of the project received an additional \$2 million in ESD grants. In total, between 2016 and 2028, \$374 million in private investment and the creation of over 2,500 permanent jobs and 2,600 construction jobs will occur at Steiner Studios, contributing to the continued growth of the media and production industry in New York state. • New York City Office of Environmental Remediation (OER) has begun funding \$3.37 million for 22 brownfield cleanup projects in all five boroughs, which have been vacant and unproductive for many years. projects are expected to result in 1,925 construction jobs and 883 full-time equivalent permanent jobs. <p>It is expected that more than 1,300 Construction jobs will be created for the projects that were submitted by the REDC for funding under the 2018 ESD Capital Competitive Grant.</p>	<ul style="list-style-type: none"> • Architecture and Engineering Occupations (17.0%) <ul style="list-style-type: none"> - Engineers (19.6%) - Architects, Surveyors, and Cartographers (18.0%) • Construction and Extraction Occupations (21.5%) <ul style="list-style-type: none"> - Supervisors (17.5%) - Construction Trades Workers (21.3%) - Helpers, Construction Trades (32.3%) - Construction and Building Inspectors (13.9%) - Elevator Installers and Repairers (32.8%) - Hazardous Materials Removal Workers (21.2%) - 	<p>Specialty Trade Contractors</p> <ul style="list-style-type: none"> - Electricians - Plumbers, Pipefitters, and Steamfitters - Construction Laborers - Carpenters - Helpers – Electricians - First-Line Supervisors of Construction Trades and Extraction Work - Elevator Installers and Repairers - Painters, Construction and Maintenance - 	<p>Construction-related skilled trades occupations comprise much of the employment within the specialty trade contractors (NAICS Industry 238) industry. Although construction is a highly cyclical industry, both the short- and the long-term prospects for specialty trade contractors are favorable. In the past three years, growth in this industry has been driven by a surge in high-end residential construction, as well as by continued strength in the commercial and government sectors. Recently announced plans for a number of new hotels, as well as expansion plans proposed by several large universities, should help this sector grow.</p>

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Architecture and Construction (Continued)		<ul style="list-style-type: none"> • Installation, Maintenance, and Repair Occupations (11.1%) <ul style="list-style-type: none"> - Supervisors (10.0%) - Electrical and Electronic Equipment Mechanics, Installers, and Repairers (7.7%) - Heating, Air Conditioning, and Refrigeration Mechanics and Installers (22.4%) - Electrical Power-Line Installers and Repairers (15.6%) - Maintenance and Repair Workers, General (15.6%) - Helpers--Installation, Maintenance, and Repair Workers (14.9%) • Material Moving Workers (11.3%) <ul style="list-style-type: none"> - Crane and Tower Operators (17.4%) - Excavating and Loading Machine and Dragline Operators (23.3%) - Industrial Truck and Tractor Operators (13.0%) - Cleaners of Vehicles and Equipment (8.5%) 		

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<p>Arts, A/V Technology & Communications</p>	<p>The Steiner Studios Media Campus project received ESD grant funding in Rounds II, V and VI. Phase three, which involves the construction of new soundstages and a large site/civil infrastructure component, received a \$5 million ESD grant in Round II and a subsequent \$6.3 million ESD grant between Rounds II and III. The soundstage building was recently completed and is currently fully occupied by film and television production tenants, creating over 1,000 new jobs. Phase four of the project received an additional \$2 million in ESD grants in Rounds V and VI. In total, between 2016 and 2028, \$374 million in private investment and the creation of over 2,500 permanent jobs and 2,600 construction jobs will occur at Steiner Studios, contributing to the continued growth of the media and production industry in New York state.</p> <p>Silvercup Studios received a \$1.6 million ESD grant to expand to a new location in the Port Morris section of the South Bronx and transform a vacant warehouse into a full-service film, television and commercial production facility. The \$17.5 million project, which officially opened for business in August 2016, created 16 new jobs and provides studio space for an additional 400 production jobs annually.</p>	<ul style="list-style-type: none"> • Arts, Design, Entertainment, Sports, and Media Occupations (5.6%) <ul style="list-style-type: none"> - Art and Design Workers (11.2%) - Entertainers and Performers, Sports and Related Workers (15.7%) - Media and Communication Workers (10.3%) - Media and Communication Equipment Workers (12.5%) 	<p>Motion Picture and Sound Recording Industries</p> <ul style="list-style-type: none"> - Producers and Directors - Laborers and Freight, Stock, and Material Movers, Hand - Film and Video Editors - Ushers, Lobby Attendants, and Ticket Takers - Sound Engineering Technicians - Multimedia Artists and Animators - Camera Operators, Television, and Video & Motion Picture - Graphic Designers 	<p>Over the past decade, the combination of tax incentives and efficient facilitation of media production in New York City has sparked a resurgence in the local motion picture and sound recording industries (NAICS Industry 512). This in turn has led to growth in both traditional and emerging industry sub-sectors and to new efforts in training and education. Although traditionally the motion picture industry is closely tied to local government incentives, recent openings of new post-production facilities and continuing growth in editing jobs, bodes well for the future of this industry.</p> <p>The main elements that comprise the other information services industry (NAICS Industry 519) are news syndicates, libraries, archives, internet publishing, and web search portals. The ongoing technology boom in New York City brought with it an increase in internet publishing, web broadcasting, and search portal companies. Venture capital financing and angel funding are increasing, large internet companies are growing their New York offices, and Cornell and Technion Universities are collaborating to build a large engineering campus on Roosevelt Island in Midtown Manhattan. These trends suggest strong continued momentum for New York City's technology and internet companies.</p>

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<p>Business Management & Administration</p>	<p>The Brooklyn Public Library’s Central Library Business and Career Center will be a resource for job seekers and entrepreneurs. The 5,700-square-foot, \$7.2 million facility will feature free computers and online learning platforms, meeting rooms and coworking areas, career workshops, job fairs and business plan classes. The library projects 10,000 users annually with the target of supporting the creation of at least 200 new businesses. Construction began in March 2018 and will finish in December 2020. The project received a \$500,000 ESD grant.</p> <p>Launched in October 2017 with federal, state, city and private support, the Veterans Entrepreneurship Training program and the Veterans Future Lab houses workforce development programs as well as business incubation space and prototyping facilities targeting veteran entrepreneurs. The facility, in Sunset Park, Brooklyn, officially opened in November 2017 and the first cohort of 17 program participants graduated in August 2018.</p> <p>In June 2018, Johnson & Johnson Innovation opened a 30,000-square-foot incubator and entrepreneurial development program, JLABS @ NYC at the New York Genome Center, funded with a \$17 million investment by the New York State Life Sciences Initiative.</p>	<ul style="list-style-type: none"> • Management Occupations (14.0%) <ul style="list-style-type: none"> - Top Executives (15.5%) - Advertising, Marketing, Promotions, Public Relations, and Sales Managers (15.2%) - Operations Specialties Managers (16.6%) - Other Management Occupations (10.2%) • Business and Financial Operations Occupations (17.7%) <ul style="list-style-type: none"> - Business Operations Specialists (17.8%) • Building and Grounds Cleaning and Maintenance Occupations (14.4%) <ul style="list-style-type: none"> - Supervisors (12.8%) - Building Cleaning and Pest Control Workers (15.1%) - Grounds Maintenance Workers (8.4%) • Office and Administrative Support Occupations (7.0%) <ul style="list-style-type: none"> - Supervisors (13.8%) - Information and Record Clerks (11.6%) - General Office Clerks (8.8%) 	<p>Professional and Technical Services</p> <ul style="list-style-type: none"> - Management Analysts - Advertising Sales Agents - Public Relations Specialists <p>Administrative and Support Services</p> <ul style="list-style-type: none"> - Security Guards - Janitors and Cleaners, Except Maids and Housekeeping Cleaners - Office Clerks, General - Nursing Assistants - Secretaries, Except Legal, Medical, and Executive - Customer Service Representatives - Maids and Housekeeping Cleaners - Laborers and Freight, Stock, and Material Movers, Hand 	<p>Professional and technical services (NAICS Industry 541) and administrative and support services (NAICS Industry 561) have marked differences but they share one common trait: they tend to sell to other businesses rather than consumers. As a result, employment in these industries reacts very quickly to changing economic trends and often leads shifts in the overall job market.</p>

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<p>Education and Training</p>		<ul style="list-style-type: none"> • Education, Training, and Library Occupations (14.7%) <ul style="list-style-type: none"> - Postsecondary Teachers (22.8%) - Adult Basic and Secondary Education and Literacy Teachers and Instructors (21.6%) - Self-Enrichment Education Teachers (41.1%) - Librarians, Curators, and Archivists (12.3%) - Instructional Coordinators (21.4%) 	<p>Educational Services</p> <ul style="list-style-type: none"> - Teacher Assistants - Elementary School Teachers, Except Special Education - Secondary School Teachers, Except Special and Vocational Ed. - Middle School Teachers, Except Special and Vocational Education - Secretaries, Except Legal, Medical, and Executive - Child Care Workers - Health Specialties Teachers, Postsecondary - Education Administrators, Elementary and Secondary School 	<p>With more than 352,000 jobs between the public and private sectors, educational services (NAICS Industry 611) is the City's second largest industry. This sector added jobs (+8.4%) between 2009 and 2014, but is expected to grow slower than the City's economy going forward. Long-term growth in educational services is driven more by demographics than by economic conditions. Trends such as a growing school-age population and an increasing portion of the population attending college drive employment demand.</p>

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<p>Finance</p>	<p>The financial services sector remains the city’s anchor industry, generating 21 percent of private sector economic output and 29 percent of the city’s private sector payroll.</p> <p>In September 2017, Governor Cuomo announced that Amazon will expand its presence in New York City with the addition of a 359,000-square-foot administrative office at 5 Manhattan West. The \$55 million expansion will create 2,000 new jobs in finance, sales, marketing and information technology that will offer an average salary of \$100,000 annually. Amazon will also retain over 1,800 jobs in New York state. To encourage Amazon's expansion in New York state, the company was offered up to \$20 million in performance-based taxed credits through ESD's Excelsior Jobs Program.</p>	<ul style="list-style-type: none"> • Business and Financial Operations Occupations (17.7%) <ul style="list-style-type: none"> - Financial Specialists (17.6%) 	<p>Securities, Commodity Contracts, and other Financial Investment and Related Activities</p> <ul style="list-style-type: none"> - Financial Analysts - Personal Financial Advisors - Financial Managers - Accountants and Auditors - Software Developers, Applications - First-Line Supervisors – Managers of Office and Administrative Support Workers <p>Professional and Technical Services</p> <ul style="list-style-type: none"> - Accountants and Auditors 	<p>The securities, commodity contracts, and other financial investments and related activities industry (NAICS Industry 523) is a part of the broader financial activities supersector. Jobs in this industry are heavily concentrated geographically; ninety percent of the state’s jobs in this industry are in New York City and most of the rest are located in the Long Island and Hudson Valley regions. Currently, employment appears to be expanding again after severe losses in 2008-2009 and the slow recovery thereafter. However, the real importance of this industry to the New York City economy is in its high wages.</p> <p>Professional, scientific, and technical services is the City’s largest industry, with an annual wage that was almost 44 percent above the NYC average for 2014 and projected growth of 28 percent through 2022.</p>
<p>Government & Public Administration</p>				

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<p>Health Science</p>	<p>The region is home to a large concentration of medical research institutions, preeminent universities, health care service providers and major pharmaceutical operations. It has consistently been a top recipient of research funding from the National Institutes of Health (NIH) (see figures 51–52). However, New York has not been organized to support a commercial life sciences industry cluster until recently. In late 2016, New York state and New York City committed a combined \$1.2 billion in public incentives to underwrite public-private initiatives that advance the life sciences industry.</p> <p>The Lower Eastside Girls Club of New York, Inc. will create a 5,000-square-foot holistic wellness center including a health industry learning center where 50 young women a year will be trained for health care careers. The training programs will include the NextGen Nurses program and Community Health Workers program.</p> <p>Using funds from NYSDOL, the City University of New York (CUNY) will work with 1199/TEF to build more robust apprenticeship programs in the health care industry by better aligning curricula with on-the-job training, scaling employer outreach, building a network of strong employer mentors and funding apprentice wages.</p>	<ul style="list-style-type: none"> • Healthcare Practitioners and Technical Occupations (17.0%) <ul style="list-style-type: none"> - Health Diagnosing and Treating Practitioners (17.3%) - Health Technologists and Technicians (16.4%) - Occupational Health and Safety Specialists (12.4%) - Occupational Health and Safety Technicians (8.2%) • Healthcare Support Occupations (35.7%) <ul style="list-style-type: none"> - Nursing, Psychiatric, and Home Health Aides (38.3%) - Occupational Therapy and Physical Therapist Assistants and Aides (32.7%) - Massage Therapists (30.5%) - Dental Assistants (21.1%) - Medical Assistants (28.0%) - Medical Equipment Preparers (10.9%) - Veterinary Assistants and Laboratory Animal Caretakers (14.5%) - Phlebotomists (22.5%) 	<p>Ambulatory Health Care Services</p> <ul style="list-style-type: none"> - Home Health Aides - Receptionists and Information Clerks - Registered Nurses - Personal Care Aides - Medical Assistants - Secretaries, Except Legal, Medical, and Executive - Dental Assistants - Physicians and Surgeons, All Other - First-Line Supervisors-Managers of Office and Administrative Support Workers - Dentists, General 	<p>Growth in health care industry employment is, like educational services, also driven more by demographics than by overall economic conditions. Many health care occupations are expected to see strong demand over the next decade as the population continues to expand and age.</p> <p>The largest of the industries in the sector, ambulatory health care services (NAICS Industry 621), experienced a rate of growth in excess of 30 percent for the 2009-2014 period and is projected to grow by 42 percent between 2012 and 2022. This industry offers a wide range of occupational opportunities. There are health care occupations with large numbers of jobs that are rapidly growing while requiring few skills, but offer low wages, such as home health aides (average annual wage of \$20,490 in 2014). There are also technical jobs that require some training and offer average pay, such as physical therapy assistants (average annual wage \$59,594 in 2014), as well as high wage jobs that require considerable training and educational credentials, such as registered nurses (average annual wage of \$89,929 in 2014). Ambulatory health services is also a major employer of clerical and administrative workers and management staff.</p>

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<p>Hospitality & Tourism</p>	<p>DOWNTOWN BROOKLYN With more than 12,000 housing units, almost 30,000 residents, 20 million square feet of occupied offices, and many retail and entertainment destinations, the area has been transformed over the past decade into a vibrant 24/7 community. Downtown Brooklyn is home to jobs, residents and students as well as an urban center for the information technology and arts and entertainment industries. Its position as a transportation hub—with 13 subway lines, 15 bus routes, the NYC Ferry and access to the LIRR—makes it a regional employment node and a center of civic and cultural activity for the borough and the city.</p> <p>The 2004 rezoning of Downtown Brooklyn and the creation of the Special Downtown Brooklyn District led to significant private investment totaling more than \$10 billion over the past fourteen years. This investment has focused on residential and mixed-use projects, and the flourishing cultural and hospitality amenities have attracted local New Yorkers and tourists to visit the district.</p>	<ul style="list-style-type: none"> • Arts, Entertainment, Recreation (24.5%) <ul style="list-style-type: none"> - Museums, Historical Sites, and Similar Institution (19.4%) - Amusement, Gambling, and Recreation Industries (32.5%) • Accommodation & Food Services (30.1%) <ul style="list-style-type: none"> - Accommodation, including Hotels and Motels (29.9%) - Food Services and Drinking Places (30.1%) • Food Preparation and Serving Related Occupations (22.5%) <ul style="list-style-type: none"> - Supervisors (26.7%) - Cooks and Food Preparation Workers (20.3%) - Food and Beverage Serving Workers (24.0%) - Dining Room/Cafeteria Attendants and Bartender Helpers (22.9%) - Dishwashers (10.7%) - Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop (21.8%) • Building and Grounds Cleaning and Maintenance Occupations (14.4%) <ul style="list-style-type: none"> - Supervisors (12.8%) - Building Cleaning and Pest Control Workers (15.1%) - Grounds Maintenance Workers (8.4%) • Personal Service Occupations (16.2%) <ul style="list-style-type: none"> - Baggage Porters, Bellhops, and Concierges (19.1%) - Tour and Travel Guides (18.1%) 	<p>Accommodation</p> <ul style="list-style-type: none"> - Maids and Housekeeping Cleaners - Hotel, Motel, & Resort Desk Clerks - Waiters and Waitresses - Maintenance and Repair Workers, General - Janitors and Cleaners, Except Maids and Housekeeping Cleaners - Baggage Porters and Bellhops - Cooks, Restaurant - Dining Room and Cafeteria Attendants and Bartender Helpers - First-Line Supervisors of Housekeeping & Janitorial Workers - Food Servers, Non-restaurant <p>Food Service and Drinking Places</p> <ul style="list-style-type: none"> - Waiters and Waitresses - Combined Food Preparation and Service Workers, incl. Fast Food - Cooks, Restaurant - First-Line Supervisors – Managers of Food Preparation and Serving Workers - Dining Room & Cafeteria Attendants & Bartender Helpers - Bartenders - Food Preparation Workers - Dishwashers - Counter Attendants, Cafeteria, Food Concession, and Coffee Shop - Cashiers 	<p>The accommodation (NAICS Industry 721) industry experienced above-average job growth over the 2009-2014 period and is expected to grow faster than the overall economy through 2022, as more tourists and business travelers continue to visit the City every year.</p> <p>Food services and drinking places (NAICS Industry 722) added the most jobs of any significant industry and is expected to grow over 30 percent between 2012 and 2022, more than twice as fast as the overall City economy. Because many of the industry’s largest occupations require only short-term training, food services & drinking places has the lowest average annual wage of any of the industries in this report (\$26,200 for 2014). However, the industry also offers considerable opportunities for advancement to higher-paying supervisory positions – slightly more than 8 percent of the occupations here are supervisory and managerial positions.</p>

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<p>Human Services</p>		<ul style="list-style-type: none"> • Community and Social Service Occupations (16.2%) <ul style="list-style-type: none"> - Counselors, Social Workers, and Other Community and Social Service Specialists (15.7%) - Religious Workers (22.1%) • Personal Care and Service Occupations (16.2%) <ul style="list-style-type: none"> - Supervisors (17.6%) - Animal Care and Service Workers (20.4%) - Entertainment Attendants and Related Workers (20.1%) - Funeral Service Workers (11.2%) - Personal Appearance Workers (22.2%) - Baggage Porters, Bellhops, and Concierges (19.1%) - Tour and Travel Guides (18.1%) - Childcare Workers (10.5%) - Personal Care Aides (32.2%) - Fitness Trainers and Aerobics Instructors (27.7%) - Recreation Workers (20.5%) - Residential Advisors (18.4%) 	<p>Social Assistance</p> <ul style="list-style-type: none"> - Personal Care Aides - Home Health Aides - Teacher Assistants - Social & Human Service Assistants - Preschool Teachers, Except SPED - Child Care Workers - Child, Family, and School Social Workers - Recreation Workers - Janitors and Cleaners, Except Maids and Housekeeping Cleaners - Secretaries and Administrative Assistants, Except Legal, Medical, and Executive <p>Religious, Grantmaking, Civic, Professional, & Similar Organizations</p> <ul style="list-style-type: none"> - Secretaries, Except Legal, Medical, and Executive - Labor Relations Specialists - Janitors and Cleaners, Except Maids and Housekeeping Cleaners - Clergy - Self-Enrichment Education Teachers - Business Operations Specialists, All Other - Maintenance and Repair Workers, All Other - Recreation Workers 	<p>Social assistance (NAICS Industry 624) is a large industry that has enjoyed steady growth for many years and is expected to continue to perform well in the future. Similar to health care and education, many of the services this industry provides are not directly tied to the business cycle, but tend to be in demand even during economic downturns. For the same reason, it should be expected to perform relatively well during recovery and expansion phases. However, because a large portion of this industry’s jobs is supported by government spending, it often performs relatively poorly when local governments experience budget difficulties.</p> <p>In recent years, the religious, grantmaking, civic, professional and similar organizations (NAICS 813) sector has been a slow but steady source of new jobs. It is also expected to grow at an above-average rate through 2022.</p>

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<p>Information Technology</p>	<p>In September 2017, Governor Cuomo announced that Amazon will expand its presence in New York City with the addition of a 359,000-square-foot administrative office at 5 Manhattan West. The \$55 million expansion will create 2,000 new jobs in finance, sales, marketing and information technology that will offer an average salary of \$100,000 annually.</p> <p>The Icahn School of Medicine at Mount Sinai is seeking to transform its 64,000-square-foot, 12-story building into a dry lab facility containing entrepreneurial services, computational research, and space for new commercial ventures at the nexus of life sciences and information technology.</p> <p>With more than 12,000 housing units, almost 30,000 residents, 20 million square feet of occupied offices, and many retail and entertainment destinations, the area has been transformed over the past decade into a vibrant 24/7 community. Downtown Brooklyn is home to jobs, residents and students as well as an urban center for the information technology and arts and entertainment industries.</p>	<ul style="list-style-type: none"> • Computer and Mathematical Occupations (25.8%) <ul style="list-style-type: none"> - Computer Occupations (25.5%) 	<p>Other Information Services</p> <ul style="list-style-type: none"> - Software Developers, Applications - Advertising Sales Agents - Sales Representatives, Services, All Other - Web Developers - Customer Service Representatives <p>Professional and Technical Services</p> <ul style="list-style-type: none"> - Software Developers, Applications 	<p>Professional, scientific, and technical services is the City’s largest industry, with an annual wage that was almost 44 percent above the NYC average for 2014 and projected growth of 28 percent through 2022.</p>

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<p>Law, Public Safety, Corrections and Security</p>		<ul style="list-style-type: none"> • Legal Occupations (9.1%) <ul style="list-style-type: none"> - Lawyers, Judges, and Related Workers (9.2%) - Legal Support Workers (8.8%) • Protective Service Occupations (10.8%) <ul style="list-style-type: none"> - Security Guards (15.8%) - Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers (25.8%) 	<p>Professional and Technical Services</p> <ul style="list-style-type: none"> - Lawyers - Paralegals and Legal Assistants 	<p>Professional, scientific, and technical services is the City’s largest industry, with an annual wage that was almost 44 percent above the NYC average for 2014 and projected growth of 28 percent through 2022.</p>
<p>Manufacturing</p>	<p>In the Brooklyn Navy Yard, a 260,000-SF, multi-tenant modern industrial facility known as the Green Manufacturing Center is complete, with a total project cost of \$68 million. The project adaptively reused the steel frames and concrete foundations of formerly derelict buildings constructed at the turn of the century as U.S. Navy machine shops. The Green Manufacturing Center accommodates at least 800 new jobs. Tenants include: Crye Precision, a designer & manufacturer of combat apparel.</p> <p>The REDC awarded a \$750,000 ESD grant for the build out of a \$6.4M Smart Cities Innovation Center at New Lab in the Brooklyn Navy Yard that offers facilities and services to support companies that are designing and building hardware for smart cities. The center is New York’s first smart cities accelerator and will be part of an advanced manufacturing project that seeks to expand export activity through the governor’s Global NY program.</p>	<ul style="list-style-type: none"> • Installation, Maintenance, and Repair Occupations (11.1%) <ul style="list-style-type: none"> - Vehicle and Mobile Equipment Mechanics, Installers, and Repairers (9.7%) - Control and Valve Installers and Repairers, Except Mechanical Door (12.1%) - Heating, Air Conditioning, and Refrigeration Mechanics and Installers (22.4%) - Industrial Machinery Mechanics (26.1%) - Electrical Power-Line Installers and Repairers (15.6%) - Medical Equipment Repairers (9.5%) - Maintenance and Repair Workers, General (15.6%) - Helpers--Installation, Maintenance, and Repair Workers (14.9%) 		

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<p>Manufacturing (continued)</p>	<p>Boyce Technologies Inc., an advanced manufacturing and life safety communications company, was awarded \$1 million in ESD grant funds and up to \$1.64 million in Excelsior Jobs Program tax credits to acquire, renovate and equip a facility in Long Island City, Queens. The \$32 million project grew into a \$40 million project that will allow Boyce to consolidate its operations and provide additional space for new machinery, product fabrication, research development, marketing, human resources and employee amenities. Through this project, Boyce has retained 58 jobs and created 41 new jobs. Renovations on the new facility are complete, including approximately 100,000 square feet of space able to support up to 400 people and house some of the worlds most advanced manufacturing equipment.</p> <p>The Brooklyn Fashion + Design Accelerator, a Pratt Institute initiative, provides inventors and entrepreneurs with business mentorship and advanced manufacturing services for apparel and textile production. Pratt received a \$270,000 ESD grant that it will use to purchase and install advanced manufacturing equipment and renovate the accelerator’s space, at a cost of approximately \$1.4 million, to accommodate R&D labs and classrooms.</p>	<ul style="list-style-type: none"> • Production Occupations (2.1%) <ul style="list-style-type: none"> - Assemblers and Fabricators (9.7%) - Food Processing Workers (18.3%) - Woodworkers (7.9%) - Plant and System Operators (8.4%) - Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders (20.0%) - Cutting and Slicing Machine Setters, Operators, and Tenders (9.1%) - Dental Laboratory Technicians (23.3%) - Ophthalmic Laboratory Technicians (20.4%) - Packaging and Filling Machine Operators and Tenders (12.8%) 		

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<p>Marketing, Sales and Service</p>	<p>In September 2017, Governor Cuomo announced that Amazon will expand its presence in New York City with the addition of a 359,000-square-foot administrative office at 5 Manhattan West. The \$55 million expansion will create 2,000 new jobs in finance, sales, marketing and information technology that will offer an average salary of \$100,000 annually.</p> <p>With the opening of the 7-train subway extension in 2015 and the completion of its first commercial office buildings, Hudson Yards is rapidly developing into a major new center for commercial and cultural activity on formerly derelict sites on the west side of Manhattan. Ultimately, it will include 2 million square feet of retail space.</p> <p>Coney Island (Brooklyn) is investing \$181 million to upgrade sewer infrastructure sewers that will allow development of 4,500 units of housing, with approximately 1,000 being affordable, as well as much needed retail, services and jobs. Multiple phases of the construction are underway with completion expected by 2025.</p>	<ul style="list-style-type: none"> • Management Occupations (14.0%) <ul style="list-style-type: none"> - Advertising, Marketing, Promotions, Public Relations, and Sales Managers (15.2%) • Sales and Related Occupations (8.9%) <ul style="list-style-type: none"> - Supervisors (7.2%) - Retail Sales Workers (10.2%) - Sales Representatives, Services (8.4%) - Demonstrators and Product Promoters (21.0%) - Sales Engineers (26.2%) 	<p>Nonstore Retailers</p> <ul style="list-style-type: none"> - Retail Salesperson - Customer Service Representatives - Wholesale and Retail Buyers, Except Farm Products - Market Research Analysts and Marketing Specialists - Packers and Packagers, Hand <p>Professional Technical Services</p> <ul style="list-style-type: none"> - Market Research Analysts and Marketing Specialists - Advertising Sales Agents - Public Relations Specialists 	<p>Nonstore retailers (NAICS Industry 454), an industry that includes online and catalog shopping, is slowly taking a bigger share of overall retailing. An electronic shopping company can handle much greater customer traffic and prospective customers are not limited to a specific geographic area, resulting in higher sales potential. Although yet small by NYC standards, this industry is surging and is likely to continue expanding, as online marketplaces grow and absorb an increasing share of total retail sales.</p>

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<p>Science, Technology, Engineering & Mathematics</p>	<p>Over the past two years, the REDC has focused on accelerating the growth of the region’s LIFE SCIENCES sector. Support from both the state and city has been a catalyst for increasing commercial activity that will create new jobs and economic opportunities across the region.</p> <p>Average wages in the Life Science industry in NYC has risen more than 10% since 2011 and was over \$80,000 annually in 2017.</p> <p>To support the growing industry, the academic community and city and state government continue to create and expand programs to develop biotech talent and entrepreneurial-minded scientists through new and existing life sciences programs of study. These programs will continue to add capacity and establish a pipeline from training to employment.</p> <p>The REDC recommends additional funding to enable Cresilon, a rapidly growing company founded in New York City, to expand in Sunset Park, Brooklyn. In Harlem, funding is recommended to support construction of the Mount Sinai Center for Data Science & Technology, specifically a dry lab facility and incubator space for commercial life sciences and information technology.</p>	<ul style="list-style-type: none"> • Computer and Mathematical Occupations (31.3%) <ul style="list-style-type: none"> - Mathematics Science Occupations (25.5%) • Architecture and Engineering Occupations (17.0%) <ul style="list-style-type: none"> - Engineers (19.6%) - Drafters, Engineering Technicians, and Mapping Technicians (11.2%) - Architects, Surveyors, and Cartographers (18.0%) • Life, Physical, and Social Science Occupations (16.9%) <ul style="list-style-type: none"> - Life Scientists (17.1%) - Physical Scientists (14.1%) - Social Scientists and Related Workers (16.5%) - Life, Physical, and Social Science Technicians (18.1%) 		<p>Professional, scientific, and technical services is the City’s largest industry, with an annual wage that was almost 44 percent above the NYC average for 2014 and projected growth of 28 percent through 2022.</p>

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<p>Science, Technology, Engineering & Mathematics (Continued)</p>	<p>\$55.75 million in state funding awarded to the NYGC in 2014 has since been matched with private grants. The NYGC opened in June 2015 and is now a world leader in producing and analyzing genomic data. It has approximately 200 full-time employees, over 50 affiliate research investigators, a robust research program, a clinical laboratory certified by the New York State Department of Health, a cutting-edge technology innovation team, and continues to provide state-of-the-art genomic and bioinformatics services to its institutional founding members and the New York scientific community.</p> <p>Johnson & Johnson’s JLABS @ NYC opened a 30,000-square-foot biotech incubator in June 2018 at the New York Genome Center, a recipient of state funding in 2012. The project, partially funded by the state, exemplifies the rise in collaboration between government, industry and entrepreneurs in New York’s life sciences cluster. The incubator has welcomed 26 young companies and is a hub of early stage life sciences development, with substantial support from Johnson & Johnson.</p>			

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<p>Transportation, Distribution & Logistics</p>	<p>The rapidly expanding Brooklyn Navy Yard struggles with poor access to public transportation. To address this critical issue, the Navy Yard received nearly \$1 million in ESD funding to help design and implement a modern, reliable shuttle service system that connects to multiple public transit options to serve tens of thousands of employees and customers. The total project cost of \$4.1 million will allow the purchase of five buses, nine transportation shelters, a transportation software app and GPS unit, and shuttle signage and wayfinding materials. The new system will reduce wait times by over 66 percent, improve reliability, connect Navy Yard workers with all the city’s major subway lines and the LIRR, and improve the Navy Yard’s competitiveness as a location for innovative, job-creating tenants. The buses went into operation in late 2017.</p>	<ul style="list-style-type: none"> • Installation, Maintenance, and Repair Occupations (11.1%) <ul style="list-style-type: none"> - Vehicle and Mobile Equipment Mechanics, Installers, and Repairers (9.7%) • Transportation and Material Moving Occupations (11.7%) <ul style="list-style-type: none"> - Supervisors (8.9%) - Motor Vehicles Operators (14.7%) - Water Transportation Workers (11.1%) - Parking Lot Attendants (18.3%) - Automotive and Watercraft Service Attendants (12.1%) - Traffic Technicians (10.6%) • Material Moving Workers (11.3%) <ul style="list-style-type: none"> - Crane and Tower Operators (17.4%) - Cleaners of Vehicles and Equipment (8.5%) - Laborers and Freight, Stock, and Material Movers, Hand (11.7%) - Packers and Packagers, Hand (13.4%) - Refuse and Recyclable Material Collectors (7.2%) 		

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<p>Transportation, Distribution & Logistics (Continued)</p>	<p>The Hunts Point Food Distribution Center in the South Bronx employs over 8,000 people. The city will invest \$18 million in capital improvements at the meat market, which will replace antiquated equipment and lower the energy costs for some 40 companies and support the retention of these jobs. The Hunts Point Cooperative Market (the Meat Market) has been awarded \$2.1 million in ESD grants in Rounds V, VI and VII to ensure that the market is able to remain a major source of jobs and a critical supplier of meat to the metropolitan region. Project completion is expected by the end of 2019.</p> <p>In September 2017, Governor Cuomo announced that a new \$100 million Amazon fulfillment center will open in the Global Logistics Park on the West Shore of Staten Island, creating 2,250 new, full-time jobs. The 855,000-square-foot facility is Amazon's first fulfillment center in New York and will offer opportunities for employees to engage with advanced robotics in a highly tech-enabled workplace. Program. In addition to the 2,250 new jobs at the facility, Amazon will retain an additional 886 jobs in New York over the next five years.</p>			

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Transportation, Distribution & Logistics (Continued)	<p>SOUTH CONDUIT TERMINAL LOGISTICS FACILITY Location: Jamaica, Queens Triangle Equities is developing a Terminal Logistics Facility, a 350,000-square-foot multi-story, multitenant, air cargo and small business storage facility, adjacent to John F. Kennedy International Airport. The project will be the first vertical air cargo facility on the east coast and will enable new and existing air carriers to increase cargo-related activity in the region. Construction will begin in spring 2019 and is expected to be completed in the fall of 2020, with tenants occupying the space by the end of 2020.</p>			

¹ 2018 Progress Report - NYC REGIONAL ECONOMIC DEVELOPMENT COUNCIL <https://regionalcouncils.ny.gov/new-york-city>

² New York State Department of Labor Long-Term Industry Employment Projections, 2014-2024 <https://www.labor.ny.gov/stats/2014-2024-Statewide-and-Regional-Long-Term-Occupational-Projections.xls>

³ Significant Industries - New York State Department of Labor <https://labor.ny.gov/stats/Significant-Industries.shtm>