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2020 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 (> 10% from 2016 through 2026) ²	Ten Most Common Occupations in Significant Industries ³	Further Description of Significant Industries
Agriculture, Food and Natural Resources				
Architecture and Construction	Past and current priority projects have and continue to create several thousands of construction jobs across New York City.	<p>Architecture and Engineering Occupations Architects, Surveyors, and Cartographers (10%)</p> <ul style="list-style-type: none"> - Architects, Except Landscape and Naval - Landscape Architects - Surveyors <p>Drafters, Engineering Technicians, and Mapping Technicians (14%)</p> <ul style="list-style-type: none"> - Architectural and Civil Drafters - Mechanical Drafters - Drafters, All Other <p>Construction and Extraction Occupations Supervisors of Construction and Extraction Workers (13%)</p> <ul style="list-style-type: none"> - First-Line Supervisors of Construction Trades and Extraction Workers <p>Construction Trades Workers (14%)</p> <ul style="list-style-type: none"> - Brickmasons and Blockmasons - Cement Masons and Concrete Finishers - Construction Laborers - Operating Engineers and Other Construction Equipment Operators - Electricians - Glaziers - Plumbers, Pipefitters, and Steamfitters - Reinforcing Iron and Rebar Workers - Roofers - Sheet Metal Workers - Structural Iron and Steel Workers 	<p>Specialty Trade Contractors</p> <ol style="list-style-type: none"> 1. Electricians 2. Plumbers, Pipefitters, and Steamfitters 3. Construction Laborers 4. Carpenters 5. First-Line Supervisors of Construction Trades and Extraction Workers 6. Elevator Installers and Repairers 7. Heating, Air Conditioning, and Refrigeration Mechanics and Installers 8. General and Operations Managers 9. Secretaries and Administrative Assistants, Except Legal, Medical, and Executive 10. Painters, Construction and Maintenance 	<p>Construction</p> <p>Construction-related skilled trades occupations comprise much of the employment within the specialty trade contractors (NAICS Industry 238) industry. Although construction is highly cyclical, both the short and the long-term prospects for specialty trade contractors are favorable. During the past three years, growth in this industry has been driven by a surge in high-end residential construction, as well as continued strength in the commercial and government sectors. Recently announced plans for several new hotels, as well as expansion plans proposed by some large universities, should help this sector continue to grow.</p>

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Architecture and Construction (Continued)		<p>Helpers, Construction Trades (19%)</p> <ul style="list-style-type: none"> - Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters - Helpers--Carpenters - Helpers--Electricians - Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters <p>Other Construction and Related Workers (16%)</p> <ul style="list-style-type: none"> - Construction and Building Inspectors - Elevator Installers and Repairers - Hazardous Materials Removal Workers <p>Installation, Maintenance, and Repair Occupations</p> <p>Other Installation, Maintenance, and Repair Occupations (11%)</p> <ul style="list-style-type: none"> - Heating, Air Conditioning, and Refrigeration Mechanics and Installers - Maintenance Workers, Machinery - Millwrights - Maintenance and Repair Workers, General - Helpers--Installation, Maintenance, and Repair Workers 		

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<p>Arts, A/V Technology & Communications</p>	<p>The Steiner Studios Media Campus project received ESD grant awards 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 REDC Round II and a subsequent \$6.3 million ESD grant between Rounds II and III. The soundstage building is completed and fully occupied by film and TV production tenants, creating over 1,000 new jobs. The infrastructure component of the project will be completed by the end of 2020. Phase four of the project received an additional \$2 million in ESD grants in Rounds V and VI (design and permitting in progress). 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 growth of the media and production industry in the state.</p>	<p>Arts, Design, Entertainment, Sports, and Media Occupations Entertainers and Performers, Sports and Related Workers (11%)</p> <ul style="list-style-type: none"> - Producers and Directors - Coaches and Scouts - Music Directors and Composers - Musicians and Singers 		

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<p>Business Management & Administration</p>	<p>Growth has been fueled by record levels of venture capital investment for startups. However, New York City typically experiences a large outward migration of residents to other parts of the country. This threatens the city’s future growth, especially with foreign immigration slowing down in recent years.</p> <p>While public high school graduation and college readiness rates are improving, less than half of students are prepared for college. At the same time, New York City employers posted 307,000 job openings in June 2019, evidence that local businesses have hiring needs that New Yorkers are not prepared to fill.</p>	<p>Management Occupations Top Executives (13%) - General and Operations Managers Advertising, Marketing, Promotions, Public Relations, and Sales Managers (13%) - Advertising and Promotions Managers - Marketing Managers - Public Relations and Fundraising Managers Operations Specialties Managers (17%) - Administrative Services Managers - Computer and Information Systems Managers - Financial Managers - Purchasing Managers - Human Resources Managers - Training and Development Managers Other Management Occupations (13%) - Construction Managers - Education Administrators, Preschool and Childcare Center/Program - Education Administrators, Postsecondary - Education Administrators, All Other - Architectural and Engineering Managers - Food Service Managers - Lodging Managers - Medical and Health Services Managers - Natural Sciences Managers - Property, Real Estate, and Community Association Managers - Social and Community Service Managers</p>	<p>Professional, Scientific and Technical Services</p> <ul style="list-style-type: none"> • Management Analysts • General and Operations Managers • Office Clerks, General <p>Administrative and Support Services</p> <ol style="list-style-type: none"> 1. Security Guards 2. Janitors and Cleaners, Except Maids and Housekeeping Cleaners 3. Human Resources Specialists 4. Office Clerks, General 5. Secretaries and Administrative Assistants, Except Legal, Medical, and Executive 6. Waiters and Waitresses 7. Laborers and Freight, Stock, and Material Movers, Hand 8. Customer Service Representatives 9. Sales Representatives, Services, All Other 10. Executive Secretaries and Executive Administrative Assistants 	<p>Professional and Business Services</p> <p>Two industries from the professional and business services sector are on the significant industries list. They are: professional, scientific and technical services (NAICS Industry 541) and administrative and support services (NAICS Industry 561). Although there are significant differences between these industries, they share a common trait: they tend to sell their services to other businesses rather than to consumers. As a result, employment in these industries reacts quickly to changing economic trends and is often a bellwether for the labor market. This sector’s performance was outstanding between 2013 and 2018, with employment in both industries growing faster than the City’s all industry employment.</p> <p>Professional, scientific and technical services is the only significant industry that qualified for the list based on all four factors considered for this report. It is the city’s largest industry based on employment, has an annual average wage (\$135,300) that was nearly 46% above the New York City average for 2018, and has a projected growth rate of 15.9% through 2026.</p>

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Business Management & Administration (continued)		Business and Financial Operations Occupations Business Operations Specialists (16%) <ul style="list-style-type: none"> - Compliance Officers - Cost Estimators - Human Resources Specialists - Logisticians - Management Analysts - Meeting, Convention, and Event Planners - Fundraisers - Training and Development Specialists - Market Research Analysts and Marketing Specialists 		<p>Because temporary help agencies are a large part of the administrative and support services industry, it is closely tied to the health of the City's corporate sector. Between 2013 and 2018, the industry grew rapidly, increasing by more than 60,900 jobs. As the City's economy continues to expand, this industry is expected to grow by nearly 20% by 2026. Technology, including cloud computing and sophisticated virtual customer service tools, has the potential to disrupt the industry if businesses decide to shift administrative support services outside of New York City, bringing down the average annual wage and the number of people employed.</p>

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<p>Education and Training</p>	<p>Increasing the number of best-in-class workforce development programs is a major priority for the governor and the announcement of the new, state-wide Workforce Development Initiative (WDI) led by the state Office of Workforce Development to manage these activities will help advance that goal. A streamlined and technology-enabled workforce development system will more effectively serve employers, trainees and job seekers.</p> <p>To this end, the REDC supports programs that:</p> <ul style="list-style-type: none"> • Make it easier for New Yorkers to identify and access training opportunities that lead to jobs and provide on-ramps for at-risk populations such as out-of-school youth, veterans and previously incarcerated individuals. • Promote sector-based workforce programs that aggregate and respond to employer expectations of required competencies and encourage collaboration by service providers. • Advance work-based learning opportunities through programs targeted not only toward individuals in school but also for those individuals in need of upskilling or assistance in transitioning industries. 	<p>Education, Training, and Library Occupations</p> <p>Postsecondary Teachers (24%)</p> <ul style="list-style-type: none"> - Business Teachers - Computer Science Teachers - Mathematical Science Teachers - Architecture Teachers - Engineering Teachers - Biological Science Teachers - Atmospheric, Earth, Marine, and Space Sciences Teachers - Chemistry Teachers - Physics Teachers - Anthropology and Archeology Teachers - Area, Ethnic, & Cultural Studies Teachers - Economics Teachers - Political Science Teachers - Psychology Teachers - Sociology Teachers - Social Sciences Teachers, All Other - Health Specialties Teachers - Nursing Instructors and Teachers - Education Teachers - Library Science Teachers - Criminal Justice and Law Enforcement Teachers - Law Teachers - Social Work Teachers - Art, Drama, and Music Teachers - Communications Teachers - English Language & Literature Teachers - Foreign Language & Literature Teachers - History Teachers - Philosophy and Religion Teachers - Graduate Teaching Assistants - Recreation and Fitness Studies Teachers - Vocational Education Teachers 	<p>Educational Services</p> <ol style="list-style-type: none"> 1. Elementary School Teachers, Except Special Education 2. Teacher Assistants 3. Secondary School Teachers, Except Special and Career/Technical Education 4. Secretaries and Administrative Assistants, Except Legal, Medical, and Executive 5. Middle School Teachers, Except Special and Career/Technical Education 6. Office Clerks, General 7. Health Specialties Teachers, Postsecondary 8. Self-Enrichment Education Teachers 9. Education Administrators, Elementary and Secondary School 10. Educational, Guidance, School, and Vocational Counselors 	<p>Educational Services</p> <p>With almost 392,000 jobs between the public and private sectors, educational services (NAICS Industry 611) employs the second most of the significant industries listed in this report in New York City. This industry added 44,800 jobs (+12.9%) between 2013 and 2018 but is expected to grow slower than all industries through 2026. Long-term growth in educational services will be driven by demographics rather than economic conditions. Trends such as a growing school-age population and an increasing portion of the population attending college will keep employment in this industry strong through 2026.</p>

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Education and Training (continued)		Librarians, Curators, and Archivists (13%) - Curators - Museum Technicians and Conservators - Librarians - Library Technicians Other Education, Training, and Library Occupations (10%) - Instructional Coordinators		
Finance	The financial services sector remains the city's anchor industry, generating 22% of private sector economic output and 28% of the city's private sector payroll.	Business and Financial Operations Occupations Financial Specialists (13%) - Accountants and Auditors - Appraisers and Assessors of Real Estate - Budget Analysts - Financial Analysts - Personal Financial Advisors - Financial Examiners - Credit Counselors - Tax Preparers	Securities, Commodity Contracts, and Other Financial Investments and Related Activities 1. Securities, Commodities, and Financial Services Sales Agents 2. Financial Analysts 3. Personal Financial Advisors 4. Financial Managers 5. Executive Secretaries and Executive Administrative Assistants 6. Accountants and Auditors 7. General and Operations Managers 8. Software Developers, Applications 2 9. First-Line Supervisors of Office and Administrative Support Workers 10. Brokerage Clerks Professional, Scientific and Technical Services • Accountants and Auditors	Financial Activities The securities, commodity contracts and other financial investments (NAICS Industry 523) industry is a part of the broader financial activities super sector. Employment in this industry is heavily concentrated in New York City with 90% of the state's jobs in this industry located here. Although this industry is highly cyclical, it has grown over time. Employment is expanding again after severe losses in 2008-2009 followed by the recovery thereafter. In New York City, the average annual wage (\$398,600) in this industry was more than four times the all industry average (\$92,600) for 2018.
Government & Public Administration				

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<p>Health Science</p>		<p>Healthcare Practitioners and Technical Occupations Health Diagnosing and Treating Practitioners (20%)</p> <ul style="list-style-type: none"> - Chiropractors - Dentists, General - Dietitians and Nutritionists - Optometrists - Anesthesiologists - Family and General Practitioners - Internists, General - Obstetricians and Gynecologists - Pediatricians, General - Psychiatrists - Surgeons - Physicians and Surgeons, All Other - Physician Assistants - Podiatrists - Occupational Therapists - Physical Therapists - Radiation Therapists - Recreational Therapists - Respiratory Therapists - Speech-Language Pathologists - Therapists, All Other - Veterinarians - Registered Nurses - Nurse Anesthetists - Nurse Midwives - Nurse Practitioners - Audiologists 	<p>Ambulatory Health Care Services</p> <ol style="list-style-type: none"> 1. Home Health Aides 2. Personal Care Aides 3. Receptionists and Information Clerks 4. Registered Nurses 5. Medical Assistants 6. Dental Assistants 7. Secretaries and Administrative Assistants, Except Legal, Medical, and Executive 8. Physicians and Surgeons, All Other 9. First-Line Supervisors of Office and Administrative Support Workers 10. Billing and Posting Clerks 	<p><u>Health Care and Social Assistance</u> Growth in health care industry employment is driven by demographic trends rather than by economic conditions. Many health care occupations are expected to see strong growth over the next decade as the population continues to age. Employment growth in health care can come from technological innovations, which both increases demand for cutting edge health care services and requires workers with new technical skills. Laser eye surgery and joint replacement surgery are good examples of this trend.</p> <p>The industry employing the most people in this sector is ambulatory health care services (NAICS Industry 621). The industry experienced a surge in employment of nearly 47% between 2013 and 2018. This was more than three times higher than the City’s all industry growth rate over the same period. Employment in this industry is projected to grow more than 48% between 2016 and 2026. This industry offers a wide range of job opportunities. There are health care occupations with large numbers of jobs that are rapidly growing. Some of these jobs, like home health aides, require few skills and offer low wages (median annual wage of \$28,000).</p>

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Health Science (continued)		Health Technologists and Technicians (19%) <ul style="list-style-type: none"> - Medical and Clinical Laboratory Technologists - Medical and Clinical Laboratory Technicians - Dental Hygienists - Cardiovascular Technologists and Technicians - Diagnostic Medical Sonographers - Nuclear Medicine Technologists - Radiologic Technologists - Magnetic Resonance Imaging Technologists - Emergency Medical Technicians and Paramedics - Dietetic Technicians - Pharmacy Technicians - Surgical Technologists - Veterinary Technologists and Technicians - Ophthalmic Medical Technicians - Licensed Practical and Licensed Vocational Nurses - Medical Records and Health Information Technicians - Opticians, Dispensing Other Healthcare Practitioners and Technical Occupations (16%) <ul style="list-style-type: none"> - Occupational Health and Safety Specialists - Athletic Trainers 		<p>There are technical jobs that require some training and offer average pay, such as occupational therapy assistants (median annual wage of \$67,500). There are also high wage jobs requiring considerable training and educational credentials, such as registered nurses (median annual wage of \$97,900). Ambulatory health care services employs many clerical and administrative workers as well as management staff.</p>

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Health Science (continued)		<p>Healthcare Support Occupations Nursing, Psychiatric, and Home Health Aides (45%)</p> <ul style="list-style-type: none"> - Home Health Aides - Nursing Assistants - Orderlies <p>Occupational Therapy and Physical Therapist Assistants and Aides (33%)</p> <ul style="list-style-type: none"> - Occupational Therapy Assistants - Physical Therapist Assistants - Physical Therapist Aides <p>Other Healthcare Support Occupations (30%)</p> <ul style="list-style-type: none"> - Massage Therapists - Dental Assistants - Medical Assistants - Medical Equipment Preparers - Veterinary Assistants and Laboratory Animal Caretakers - Phlebotomists 		

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<p>Hospitality & Tourism</p>		<p>Food Preparation and Serving Related Occupations</p> <p>Supervisors of Food Preparation and Serving Workers (22%)</p> <ul style="list-style-type: none"> - Chefs and Head Cooks - First-Line Supervisors of Food Preparation and Serving Workers <p>Cooks and Food Preparation Workers (18%)</p> <ul style="list-style-type: none"> - Cooks, Institution and Cafeteria - Cooks, Restaurant - Food Preparation Workers <p>Food and Beverage Serving Workers (22%)</p> <ul style="list-style-type: none"> - Bartenders - Combined Food Preparation and Serving Workers, Including Fast Food - Counter Attendants, Cafeteria, Food Concession, and Coffee Shop - Waiters and Waitresses - Food Servers, Nonrestaurant <p>Other Food Preparation and Serving Related Workers (19%)</p> <ul style="list-style-type: none"> - Dining Room and Cafeteria Attendants and Bartender Helpers - Dishwashers - Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop 	<p>Food Services and Drinking Places</p> <ol style="list-style-type: none"> 1. Waiters and Waitresses 2. Combined Food Preparation and Serving Workers, Including Fast Food 3. Cooks, Restaurant 4. Food Preparation Workers 5. Dining Room and Cafeteria Attendants and Bartender Helpers 6. First-Line Supervisors of Food Preparation and Serving Workers 7. Bartenders 8. Dishwashers 9. Cashiers 10. Counter Attendants, Cafeteria, Food Concession, and Coffee Shop 	<p><u>Leisure & Hospitality</u></p> <p>Of the two industries on the list from this sector, food services and drinking places (NAICS Industry 722) employs the most people. Food services and drinking places expanded by 58,000, or 22.6%, between 2013 and 2018 and is expected to grow by 22.0% between 2016 and 2026. This growth rate is higher than the growth rate for all industries in New York City. Because many of the industry’s largest occupations only require short-term training, the food services and drinking places industry had the lowest average annual wage of any of the industries in this report (\$31,500) in 2018. However, the industry offers considerable opportunities for advancement to higher-paying supervisory positions. A little more than 8% of the occupations in this industry are supervisory and managerial positions.</p> <p>Employment in leisure and hospitality, which is typically impacted by national recessions, performed well during the last downturn and reached a record-high in 2018 (463,000). New York City’s growing popularity as a tourist destination combined with the adoption of dynamic pricing models by hotels has created a steady stream of new hotel openings as well as increased the number of job opportunities in the sector. Rising corporate profits and improving economies abroad should lead to further improvements in this industry.</p>

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<p>Human Services</p>	<p>High-quality, affordable childcare is necessary to enable parents to participate in the workforce or to pursue job training and educational opportunities. Quality childcare is also important to society as a whole, providing a multi-generational approach to building a strong workforce and a solid foundation for children’s future educational experience.</p>	<p>Community and Social Service Occupations Counselors, Social Workers, and Other Community and Social Service Specialists (20%)</p> <ul style="list-style-type: none"> - Substance Abuse and Behavioral Disorder Counselors - Educational, Guidance, School, and Vocational Counselors - Marriage and Family Therapists - Mental Health Counselors - Rehabilitation Counselors - Counselors, All Other - Child, Family, and School Social Workers - Healthcare Social Workers - Mental Health and Substance Abuse Social Workers - Health Educators - Social and Human Service Assistants - Community Health Workers <p>Religious Workers (16%)</p> <ul style="list-style-type: none"> - Clergy - Directors, Religious Activities and Education 	<p>Social Assistance</p> <ol style="list-style-type: none"> 1. Home Health Aides 2. Personal Care Aides 3. Teacher Assistants 4. Social and Human Service Assistants 5. Child, Family, and School Social Workers 6. Preschool Teachers, Except Special Education 7. Childcare Workers 8. Recreation Workers 9. Janitors and Cleaners, Except Maids and Housekeeping Cleaners 10. Secretaries and Administrative Assistants, Except Legal, Medical, and Executive 	<p><u>Health Care and Social Assistance</u> Growth in health care industry employment is driven by demographic trends rather than by economic conditions. Many health care occupations are expected to see strong growth over the next decade as the population continues to age. Employment growth in health care can come from technological innovations, which both increases demand for cutting edge health care services and requires workers with new technical skills. Laser eye surgery and joint replacement surgery are good examples of this trend.</p> <p>Social assistance (NAICS Industry 624) is a large industry that has enjoyed steady growth for many years. It is expected to continue to perform well in the future. Like health care and education, many of the services this industry provides are not directly tied to the business cycle and, therefore, remain in demand during economic downturns. However, because a large portion of this industry’s jobs are funded by the public sector, employment in the social assistance industry can decline when governments experience budget difficulties</p>

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Human Services (continued)		<p>Building and Grounds Cleaning and Maintenance Occupations Supervisors of Building and Grounds Cleaning and Maintenance Workers (15%)</p> <ul style="list-style-type: none"> - First-Line Supervisors of Housekeeping and Janitorial Workers - First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers <p>Building Cleaning and Pest Control Workers (17%)</p> <ul style="list-style-type: none"> - Janitors and Cleaners, Except Maids and Housekeeping Cleaners - Maids and Housekeeping Cleaners <p>Grounds Maintenance Workers (13%)</p> <ul style="list-style-type: none"> - Landscaping and Groundskeeping Workers - Tree Trimmers and Pruners <p>Personal Care and Service Occupations Supervisors of Personal Care and Service Workers (20%)</p> <ul style="list-style-type: none"> - First-Line Supervisors of Personal Service Workers <p>Animal Care and Service Workers (30%) Entertainment Attendants and Related Workers (17%)</p>		

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Human Services (continued)		<p>Personal Appearance Workers (17%)</p> <ul style="list-style-type: none"> - Hairdressers, Hairstylists, and Cosmetologists - Manicurists and Pedicurists - Shampooers - Skincare Specialists <p>Baggage Porters, Bellhops, and Concierges (16%)</p> <ul style="list-style-type: none"> - Baggage Porters and Bellhops - Concierges <p>Tour and Travel Guides (15%)</p> <p>Other Personal Care and Service Workers (32%)</p> <ul style="list-style-type: none"> - Personal Care Aides - Fitness Trainers & Aerobics Instructors - Recreation Workers - Residential Advisors 		
Information Technology	The fastest job growth continues to be in technology-related industries, with a 53% increase in high-tech jobs just since 2011.	<p>Computer and Mathematical Occupations</p> <p>Computer Occupations (21%)</p> <ul style="list-style-type: none"> - Computer and Information Research Scientists - Computer Systems Analysts - Information Security Analysts - Software Developers, Applications - Software Developers, Systems Software - Web Developers - Database Administrators - Network and Computer Systems Administrators - Computer User Support Specialists 	<p>Other Information Services</p> <ol style="list-style-type: none"> 1. Software Developers, Applications 2. Librarians 3. Sales Representatives, Services 4. Editors 5. Library Technicians 6. Market Research Analysts and Marketing Specialists 7. Office Clerks, General 8. Customer Service Representatives 9. Advertising Sales Agents 10. Web Developers <p>Professional, Scientific and Technical Services</p> <ul style="list-style-type: none"> • Computer Systems Analysts • Software Developers, Applications 	<p>Information</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 technology boom in New York City brought with it an increase in internet publishing, web broadcasting and search portal companies. Both small and large internet companies are growing their New York offices. Cornell and Technion Universities are collaborating on construction of a large engineering campus on Roosevelt Island in Midtown Manhattan. These trends suggest strong growth will continue for New York City's technology and internet companies.</p>

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<p>Law, Public Safety, Corrections and Security</p>		<p>Legal Occupations Lawyers, Judges, and Related Workers (11%) - Lawyers Legal Support Workers (13%) - Paralegals and Legal Assistants</p>	<p>Professional, Scientific and Technical Services</p> <ul style="list-style-type: none"> • Lawyers • Paralegals and Legal Assistants 	
<p>Manufacturing</p>		<p>Production Occupations Food Processing Workers (18%) - Bakers - Butchers and Meat Cutters - Meat, Poultry, and Fish Cutters and Trimmers - Food Batchmakers - Food Cooking Machine Operators and Tenders</p>		
<p>Marketing, Sales and Service</p>		<p>Management Occupations Advertising, Marketing, Promotions, Public Relations, and Sales Managers (13%) - Advertising and Promotions Managers - Marketing Managers</p>	<p>Non-store Retailers</p> <ol style="list-style-type: none"> 1. Retail Salespersons 2. Order Clerks 3. Customer Service Representatives 4. General and Operations Managers 5. Market Research Analysts and Marketing Specialists 6. Software Developers, Systems Software 7. Shipping, Receiving, and Traffic Clerks 8. Packers and Packagers, Hand 9. Office Clerks, General 10. Laborers and Freight, Stock, and Material Movers, Hand <p>Professional, Scientific and Technical Services</p> <ul style="list-style-type: none"> • Market Research Analysts and Marketing Specialists • Sales Representatives, Services 	<p>Trade, Transportation and Utilities Non-store retailers (NAICS Industry 454), an industry that includes online and catalog shopping, is slowly taking a larger share of overall retailing. Electronic shopping businesses can handle high levels of customer traffic, and customers are not limited to the New York City area, resulting in higher sales potential. Although small by New York City standards, this industry is growing and is likely to continue to expand as the online marketplace absorbs an increasing share of retail sales.</p>

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<p>Science, Technology, Engineering & Mathematics</p>	<p>The fastest job growth continues to be in technology-related industries, with a 53% increase in high-tech jobs just since 2011.</p> <p>State and city policies require that development and environmental justice initiatives work in tandem. The REDC cannot achieve its job creation and economic development goals without ensuring that the projects it supports embrace the public policy objectives established under these new laws. A central aspect of the environmental justice agenda is to ensure that residents of disadvantaged communities have the opportunity to train for the new “green jobs” that will result from significant public and private investment required to implement the new environmental legislation. One example is the \$10 million announced by the governor this year for funding training in building operations and maintenance, which are jobs that increasingly require technical and environmental skills. Wind turbine and solar panel manufacturing and installation are also important, new employment opportunities for disadvantaged populations.</p>	<p>Computer and Mathematical Occupations Mathematical Science Occupations (29%)</p> <ul style="list-style-type: none"> - Actuaries - Operations Research Analysts - Statisticians <p>Architecture and Engineering Occupations Engineers (16%)</p> <ul style="list-style-type: none"> - Biomedical Engineers - Civil Engineers - Computer Hardware Engineers - Electrical Engineers - Environmental Engineers - Health and Safety Engineers, Except Mining Safety Engineers and Inspectors - Industrial Engineers - Mechanical Engineers <p>Drafters, Engineering Technicians, and Mapping Technicians (14%)</p> <ul style="list-style-type: none"> - Civil Engineering Technicians - Environmental Engineering Technicians - Mechanical Engineering Technicians 		

NEW YORK CITY REGIONAL ECONOMIC LABOR OUTLOOK ALIGNMENT

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<p>Science, Technology, Engineering & Mathematics (Continued)</p>	<p>In 2016, the Partnership Fund for New York City released a study showing that the level of National Institutes of Health (NIH) funding in downstate New York warranted more commercial life sciences activity and outlined how a combination of public and private sector actions could result in as many as 25,000 new jobs and \$3.1 billion in economic impact. New York has all the assets for a thriving life sciences industry: world-class academic centers, cutting-edge biomedical research and Nobel prize winning scientists. New York has also consistently been a top recipient of research funding from the National Institutes of Health (NIH) (figures 15, 16).</p> <p>The sector was poised to take off, and the state and city proceeded to commit a total of \$1.2 billion to support development of New York’s life sciences industry cluster. Since funds were appropriated in 2018, the industry has dramatically expanded with three new incubator/accelerator facilities and several new programs through the NYCEDC, including an early-stage life sciences funding initiative for companies, life sciences expansion space funds and an internship program for college students with majors in science or management tracks.</p>	<p>Life, Physical, and Social Science Occupations</p> <p>Life Scientists (18%)</p> <ul style="list-style-type: none"> - Biochemists and Biophysicists - Microbiologists - Medical Scientists, Except Epidemiologists <p>Physical Scientists (15%)</p> <ul style="list-style-type: none"> - Physicists - Clinical, Counseling, and School Psychologists - Psychologists, All Other - Sociologists - Urban and Regional Planners <p>Life, Physical, and Social Science Technicians (13%)</p> <ul style="list-style-type: none"> - Biological Technicians - Environmental Science and Protection Technicians, Including Health 		

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<p>Transportation, Distribution & Logistics</p>	<p>Historically, transportation issues have hampered development and quality of life in Staten Island. Effective planning for roads and mass transit and utilizing water-borne transportation are critical aspects to the future of Staten Island. Increased connectivity and improvements in the DRI area will be key to the success of these projects, drawing workers, residents and visitors to the area and providing reliable connections to the rest of the city and region.</p> <p>The Hunts Point Food Distribution Center in the South Bronx employs over 8,000 people. The city is investing \$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 project has also received \$2.1 million in ESD grants in Rounds V-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>Transportation and Material Moving Occupations</p> <p>Motor Vehicle Operators (11%)</p> <ul style="list-style-type: none"> - Ambulance Drivers and Attendants, Except Emergency Medical Technicians - Bus Drivers, Transit and Intercity - Bus Drivers, School or Special Client <p>Water Transportation Workers (11%)</p> <ul style="list-style-type: none"> - Sailors and Marine Oilers - Captains, Mates, and Pilots of Water Vessels <p>Other Transportation Workers (12%)</p> <ul style="list-style-type: none"> - Parking Lot Attendants - Automotive and Watercraft Service Attendants - Traffic Technicians - Transportation Attendants, Except Flight Attendants 	<p>Non-store Retailers</p> <ol style="list-style-type: none"> 1. Retail Salespersons 2. Order Clerks 3. Customer Service Representatives 4. General and Operations Managers 5. Market Research Analysts and Marketing Specialists 6. Software Developers, Systems Software 7. Shipping, Receiving, and Traffic Clerks 8. Packers and Packagers, Hand 9. Office Clerks, General 10. Laborers and Freight, Stock, and Material Movers, Hand 	<p>Trade, Transportation and Utilities Non-store retailers (NAICS Industry 454), an industry that includes online and catalog shopping, is slowly taking a larger share of overall retailing. Electronic shopping businesses can handle high levels of customer traffic, and customers are not limited to the New York City area, resulting in higher sales potential. Although small by New York City standards, this industry is growing and is likely to continue to expand as the online marketplace absorbs an increasing share of retail sales.</p>

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<p>Transportation, Distribution & Logistics (Continued)</p>	<p>Triangle Equities is developing a Terminal Logistics Facility, a 350,000-square-foot multi-story, multi-tenant, 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.</p> <p>In 2018, a new \$100 million Amazon fulfillment center opened in the Global Logistics Park on the West Shore of Staten Island, creating more than 2,000 full-time jobs. The 855,000-square-foot facility is Amazon’s first fulfillment center in New York and offers opportunities for employees to engage with advanced robotics in a highly tech-enabled workplace</p>			

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Transportation, Distribution & Logistics (Continued)	<p>To address the issue that the rapidly expanding Brooklyn Navy Yard struggles with poor access to public transportation, the Navy Yard received nearly \$1 million in ESD funding to help design and implement a modern, reliable shuttle service system that connects tens of thousands of employees and customers to multiple public transit options. The total project cost of \$4.1 million allowed for the purchase of five buses, 10 transportation shelters, a transportation software app and GPS unit, shuttle signage and wayfinding materials, as well as providing shuttle access to the NYC Ferry landing in the Navy Yard. The buses went into operation in late 2017 and NYC Ferry began service to the Navy Yard in May 2019.</p>			

¹ 2019 Progress Report - NYC REGIONAL ECONOMIC DEVELOPMENT COUNCIL https://regionalcouncils.ny.gov/sites/default/files/2019-11/NYCREDC_Progress_Report_2019.pdf

² New York State Department of Labor Long-Term Industry Employment Projections, 2016-2026 <https://labor.ny.gov/stats/2016-2026-Statewide-and-Regional-Long-Term-Occupational-Projections-with-Separations.xls>

³ 2019 Significant Industries* - New York State Department of Labor <https://labor.ny.gov/stats/PDFs/Significant-Industries-New-York-City.pdf>

* Ten industries are designated as “significant” in New York City. In each of the industries selected, employment increased between 2013 and 2018. In addition, employment in eight of the ten industries is expected to grow faster than employment in all industries combined through 2026. Collectively, these ten industries account for slightly more than half of the jobs in New York City. All significant industries shared one or more of the following characteristics: rapid growth (percentage basis); large growth (absolute basis); high wages (average annual wage above the City average of \$92,600 in 2018); or strong expected growth through 2026. A broad set of industries were identified for this report. They cover eight major industry groups: construction; trade, transportation and utilities; information; financial activities; professional and business services; educational services; health care and social assistance; and leisure and hospitality.