



Report - January 2018

Work to Do: How Automation Will Transform Jobs in NYC

In a first-of-its-kind analysis, CUF studied the automation potential of every occupation in New York City, evaluating the likelihood that a machine could perform each job's component tasks and revealing which ones are most likely to be done by machines in the decades to come.

by Matt A.V. Chaban

A new Machine Age is coming to New York. From factories, warehouses, and call centers to hospitals, start-ups, and construction sites, automation is reshaping jobs and industries in nearly every corner of the city. But this time is different. Machines are no longer limited to performing repetitive, mechanical tasks, but are capable of learning on the job. As technology tackles more social and cognitive work, its role in the workplace will vastly expand.

Some existing occupations will be largely automated in the future, such as movie projectionists, production line workers, and even bus drivers. For most workers—whether attorneys, teachers, or cooks—automation will instead transform their jobs, not end them; more of their roles will be augmented by robots, machine learning, and artificial intelligence. This brave new world will create enormous opportunities while posing new challenges for New York—and it's already beginning.

In a first-of-its-kind analysis, the Center for an Urban Future studied the automation potential of every occupation in New York City, evaluating the likelihood that a machine could perform each job's component tasks and revealing which ones are most likely to be done by machines in the decades to come.

Our study finds that New York City is less susceptible to automation than the nation as a whole. At the same time, more than 456,000 jobs in the city—about 1 in 10—could be largely automated using technology that exists today. (These are jobs in which at least 80 percent of their associated tasks could be done by machines.) This report also finds that the strongest effects are on lower- and middle-income jobs, the first rungs of the city's economic ladder, where the impact of automation is likely to be significant.

To be clear, automation is not expected to eliminate all, or even many, of these jobs. Indeed, this analysis shows that there

are only about 7,000 jobs in the five boroughs that are 100 percent automatable. As has been the case since the Industrial Revolution, certain occupations may shed jobs as machines gain ground, but technology is still anticipated to create more jobs than it displaces. In many cases, automation will require humans to work more closely with machines, rather than be replaced by them. This is where policymakers and the private sector should take action, to ensure workers have the technical expertise, education, and training for the workplaces of the future.

Nowhere will this be more crucial than for low-wage and low-skill workers. Many of these jobs are already among the most tenuous in the city and will only become more so. Such is the case with the city's 55,040 bookkeeping, accounting, and auditing clerks, the largest group whose tasks are highly susceptible to automation (86 percent of their tasks could be automated), as are the 49,540 fast food service workers (87 percent automation potential) 40,320 stock clerks (86 percent automation potential), and 14,310 dishwashers (86 percent automation potential).

Even so, New York is better positioned than most other places in the United States. Jobs at risk of full automation are rare here, while many occupations that have a significant presence in New York have a relatively low automation potential. In New York, meatpackers and sewing machine operators—whose jobs are highly automatable—are far outnumbered by home health aides, publicists, and graphic designers—all jobs that rely on a human touch. Across all occupations citywide, roughly two in five job tasks in New York (about 39 percent) stand a high likelihood of being automated. That is compared to slightly more than half (51 percent) nationally.

This analysis—part of our Middle Class Jobs Project, a research initiative funded by Fisher Brothers and Winston C. Fisher—is based on data published earlier this year by the McKinsey Global Institute. In that report, McKinsey calculated the automation potential of more than 800 occupations nationally, cataloging the share of a given job's core activities that could be performed by machines. Our analysis applies McKinsey's projections to New York City, using the latest employment data from the New York State Department of Labor for the 618 occupations identified across the five boroughs.¹

Chief executives and actors can expect a high degree of job security, although a quarter of the tasks CEOs do today can be automated in the future. For medical equipment preparers and mail clerks, the potential to be replaced—not just augmented—may be far greater. As with past economic shifts, New York is poised to succeed where others have struggled, though automation is likely to transform jobs for workers throughout the economy.

Our major findings include the following:

- There are only about 7,000 jobs that are 100 percent automatable, but as many as 456,000 could have 80 percent of their tasks performed by a machine. This include positions as varied as bakers, mail clerks, crane operators, and bus drivers.
- More than 1.4 million jobs, about 1 in 3, in New York City today have the potential for at least half of their job tasks to be automated. About 2.4 million jobs—more than half of all in the city—are likely to be at least 30 percent automated.
- New York is better positioned than many places in the United States. Roughly two in five job tasks in New York (about 39 percent) stand a high likelihood of being automated. That is compared to slightly more than half (51 percent) nationally.
- Among the 100 most automatable occupations in the city with at least 500 workers, 51 percent of those make less than \$40,000 per year. A further 41 percent could be classified as middle income, making between \$40,000 and \$80,000, while a remaining 8 percent make more than that.
- In New York, home health aides are the largest group of workers whose tasks are relatively invulnerable to automation (129,000 jobs; 11 percent automation potential).
- Bookkeeping, accounting, and auditing clerks are the largest group whose tasks are highly vulnerable to automation (55,040 jobs; 86 percent automation potential), followed by food prep and fast food service workers (49,540 jobs, 87 percent automation potential).

- Automation will have a considerable impact on salaries citywide, affecting the equivalent of \$92 billion in wages—about 31 percent of all income in the city today.

Automation is hardly a new phenomenon in New York City. In the days of New Amsterdam, Manhattan had four different windmills producing flour and lumber far more efficiently than human hands, and machines have been winnowing workers on factory and trading floors ever since. In 1947, New York had more manufacturing jobs than Philadelphia, Detroit, Los Angeles, and Boston put together. But despite losing more than 90 percent of these jobs over the past 70 years, the city employs more people today than at any other point in history.

In part, this is because the pace of automation has remained far slower in office towers and service jobs than on assembly lines, which allowed dynamic urban centers to thrive, while more rural and industry-dependent communities have struggled to rebound.

Yet part of what made cities like New York less susceptible to automation in the past could make them more so in the coming decades. Machines have long excelled at replicating routine, physical labor. Now, computer algorithms are performing social and cognitive tasks of increasing complexity, while fine tuning more complex spatial tasks, whether driving trucks or stocking shelves.

The result is that automation has as much potential to remake New York's economy in the information age as it did in the wake of the Industrial Revolution or the postwar era. Among the city's large, vulnerable occupations are labor-intensive positions like fast food workers (49,540, 86 percent automatable tasks), but also white-collar jobs like bookkeepers and accountants (55,040, 86 percent automatable tasks).

A job's automation potential is defined by McKinsey as the percentage of discreet work tasks that can be performed by machines. In the case of bookkeepers and accountants, nearly 86 percent of current job tasks could be automated using available technology.

This does not mean that 86 percent of these jobs are expected to disappear, although some job losses are likely to occur and other jobs will require significantly more tech skills than they do today. Computer scientists and economists emphasize that factors as diverse as technology costs, labor availability, and social and political pressure can all increase or decrease the real-world automation potential of any particular job.

On the positive side, many of New York's fastest-growing jobs, according to the state Department of Labor, are largely insulated from displacement by automation. Among the top 30 expanding occupations, the potential to automate is largely limited to restaurant cooks, where 84 percent of the work could be automated, followed by web developers, at 42 percent. The remaining popular, fast-growing jobs have automation potentials ranging from 24 percent to, in the case of ambulance drivers, zero (while driving is increasingly done by computers, doing so in an emergency to save someone's life remains highly unprogrammable).

At the same time, automation will pose serious challenges to New York, not only because so many jobs are likely to be affected, but because the effects will hit New York's most vulnerable workers the hardest. The jobs that offer New Yorkers a foothold in the economy—the first rungs to the middle class—are the ones most threatened by automation. Just as automation displaced many of the well-paying, middle-skilled industrial jobs of the past, the low-skilled occupations that are still growing briskly are now poised to be programmed away or transformed into higher-skilled positions with greater barriers to entry.

As these entry-level jobs come under pressure, there is potential for the city's persistent income gap to widen further, as jobs will become increasingly dependent on technical, personal, and analytical skills. The \$92 billion in wages that could be lost to automation is equal to 31 percent of the city's total payroll today, but will affect 41 percent of all work—a gap that

underscores the disproportionate impact of automation on lower-wage workers. (This is still a better situation than nationally, where 51 percent of job tasks can be automated, the equivalent of 38 percent of incomes nationwide.)

Automated jobs will not vanish overnight. Even among the most automatable work, myriad factors—economic, political, and social—will shape their eventual fates. Consider the city's 3,600 subway operators, whose work, according to McKinsey, is 94.54 percent automatable. The MTA has been debating such a move for years, but has made little effort in the face of stiff resistance from the Transit Workers Union.

Within private sector employment, the pressures could be greater. As machines have gained in dexterity, they are now poised to replace the 8,790 sewing machine operators, the 4,770 mail clerks, and the nearly 60,000 fast food servers and cooks, which are among the 46 local occupations that rank in the 90th percentile for automation.

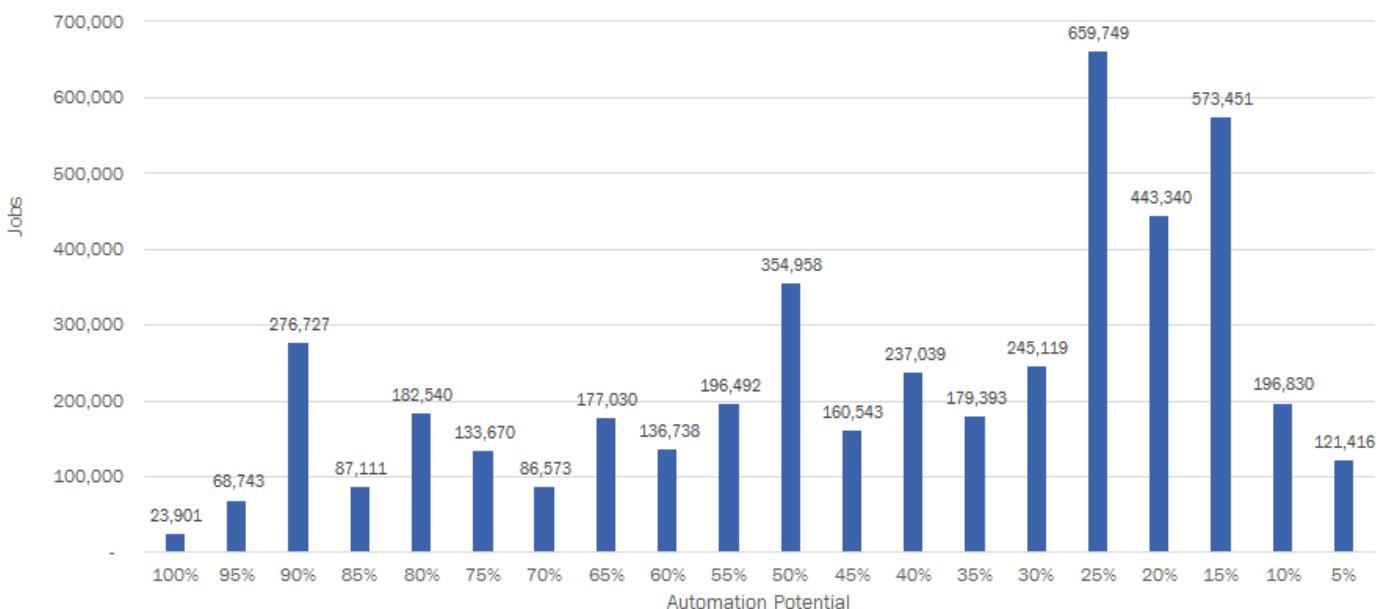
Among the most automatable jobs, production work remains the most vulnerable, whether sewing machine operators (98 percent), meatpackers (96 percent), or welders (92 percent). But service sector jobs are not immune to the forces of automation. Almost 77 percent of the tasks done by the city's 69,000 waiters could be handled by machines, as could 72 percent of the duties performed by the city's 21,290 computer support specialists.

Indeed, seven of the 15 largest occupations in the top 100 with the highest automation potential are in the foodservice industry, followed by four in transportation and three in office administration.



Distribution of Automatable Work in New York City

Most jobs in NYC are at least partially automatable, but the distribution is not spread equally across the workforce. This chart shows that more than half of all jobs are less than 30 percent automatable.



Source: Center for an Urban Future analysis of data from McKinsey Global Institute and the New York State Department of Labor

New York already benefits from a lower overall automation potential than the nation, so focusing on its natural strengths in the knowledge and service sectors will be an important factor in the decades to come. Many of the city's jobs require the social, cognitive, and technical skills not yet easily replicated by machines, including software developers and graphic designers, but also teachers, nurses, and front-line managers in nearly every field.

While the city should not ignore more vulnerable occupations, policies and programs that help educate students and retrain workers for positions that have a long-term future—while boosting job quality in the service sector—will be vital components of any strategy to prepare for the changing marketplace.

Many positions have the potential for augmentation as much as automation. At Kickstarter, the crowdfunding company headquartered in Brooklyn, the engineering and customer support staff worked together to create a system that sifts through hundreds of queries in a day. Rather than replacing the hands-on work of the customer support team, the machine-learning algorithm helps classify queries automatically, allowing the team to focus on more complicated requests while generating faster responses to more repetitive and simple questions. In addition, customer support employees have been trained on basic programming skills in order to update the algorithm themselves, making their roles even more valuable to the company.

Such ingenuity and adaptability is crucial for the future of work. The potential for expanded opportunities and new jobs is significant, and advances in technology will continue to benefit New York in innumerable ways.

But policymakers, education officials, and business leaders will need to help the city adjust by staying ahead of the coming wave of automation. By preparing now, New York can reap the rewards of increased productivity and job growth, while mitigating the painful effects of dislocation on the city's workers, particularly the most vulnerable ones.

- City, state, and federal leaders will need to make **significant new investments in skills building and education** that are just as bold as the introduction of mandatory high school in the postwar era. Too many classrooms remain poorly equipped to prepare students for the coming changes. A more automated economy will necessitate a public education system—both in the P-12 school system and in postsecondary institutions—that is much more closely in tune with the skills young people need for today's new world of work.
- As the increasing pace of technological change creates a workplace in constant flux, students should be taught how to keep pace. Critical thinking, problem-solving, and adaptability should join reading, writing, math, and science as the core competencies of an education. **Career exploration and work-study opportunities** for all students will be more important than ever.
- Schools and universities should become more responsive themselves. Given the ever-increasing pace of technological change, too many institutions teach programming languages and trade skills that end up obsolete before a student ever sets foot in a workplace. Exposing students to real-world problems through **apprenticeships and internships** will become increasingly important, and **data on in-demand tech skills** and occupations can guide the most promising programs for students.
- This new approach will require a **reimagined social safety net**. Automation will necessitate a new system of income and work supports designed to help more workers adjust to the coming changes and retrain for jobs that will be augmented by technology. As more workers enter the contingent labor force, innovative approaches like portable benefits may become essential for ensuring that the safety net continues to function.
- Policymakers will have to find common ground to **improve career and technical education and invest in scaling up the programs that work**. Although often touted as an essential step in the wake of the free trade agreements of the 1990s and 2000s, there has been little follow-through nationwide. The same mistake cannot be made again. Programs should be informed by real employer needs, aligned with the labor market, and able to build on existing credentials to help meet the shifting demands of emerging technologies.
- In addition, businesses themselves should do their share, especially as corporations begin to reap the benefits of increased productivity. The IBM-founded P-TECH school in Brooklyn has become a model for similar **industry-led investments in career education**, offering students advanced training in high-growth fields like tech and healthcare by combining a high school diploma and a no-cost college credential in a single six-year program. This approach could become an aspirational model for public education, especially as college costs continue to soar and college success remains a major challenge for American cities.

1. New York City employment data figures are sourced from the New York State Department of Labor and the U.S. Census.

Automation Potential of NYC's 25 Largest Occupations

Occupation	Automation Potential	2015	2016
RETAIL SALESPERSONS	47%	134,640	132,880
HOME HEALTH AIDES	11%	128,970	129,090
JANITORS AND CLEANERS, EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	22%	95,330	106,810
OFFICE CLERKS, GENERAL	61%	92,450	105,660
SECRETARIES AND ADMINISTRATIVE ASSISTANTS, EXCEPT LEGAL, MEDICAL, AND EXECUTIVE	54%	86,170	92,200
SECURITY GUARDS	39%	72,770	80,780
PERSONAL CARE AIDES	24%	74,130	79,790
GENERAL AND OPERATIONS MANAGERS	23%	77,730	78,060
CASHIERS	49%	69,260	75,510
REGISTERED NURSES	29%	73,790	73,610
WAITERS AND WAITRESSES	77%	69,170	68,750
ACCOUNTANTS AND AUDITORS	12%	68,380	68,200
CUSTOMER SERVICE REPRESENTATIVES	29%	62,480	66,770
LAWYERS	23%	58,690	58,460
FIRST-LINE SUPERVISORS OF OFFICE AND ADMINISTRATIVE SUPPORT WORKERS	22%	53,680	56,440
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	86%	47,460	55,040
EXECUTIVE SECRETARIES AND EXECUTIVE ADMINISTRATIVE ASSISTANTS	59%	51,870	51,510
MAINTENANCE AND REPAIR WORKERS, GENERAL	25%	50,480	50,420
COMBINED FOOD PREPARATION AND SERVING WORKERS, INCLUDING FAST FOOD	87%	51,870	49,540
SECURITIES, COMMODITIES, AND FINANCIAL SERVICES SALES AGENTS	46%	46,330	48,300

Occupation	Automation Potential	2015	2016
TEACHER ASSISTANTS	20%	44,340	47,520
LABORERS AND FREIGHT, STOCK, AND MATERIAL MOVERS, HAND	7%	41,390	45,970
SALES REPRESENTATIVES, WHOLESALE AND MANUFACTURING, EXCEPT TECHNICAL AND SCIENTIFIC PRODUCTS	21%	38,620	45,090
NURSING ASSISTANTS	44%	40,710	43,100
STOCK CLERKS AND ORDER FILLERS	86%	38,690	40,320

The 25 Largest Occupations with High Automation Potential

Occupation	Automation Potential	2015	2016
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	86%	47,460	55,040
COMBINED FOOD PREPARATION AND SERVING WORKERS, INCLUDING FAST FOOD	87%	51,870	49,540
STOCK CLERKS AND ORDER FILLERS	86%	38,690	40,320
COOKS, RESTAURANT	84%	33,030	33,510
FOOD PREPARATION WORKERS	91%	31,460	28,400
DINING ROOM AND CAFETERIA ATTENDANTS AND BARTENDER HELPERS	86%	17,980	18,550
BUS DRIVERS, TRANSIT AND INTERCITY	85%	15,700	15,900
HEAVY AND TRACTOR-TRAILER TRUCK DRIVERS	81%	13,540	15,740
DISHWASHERS	86%	14,390	14,310
BILLING AND POSTING CLERKS	88%	12,260	13,560
COUNTER ATTENDANTS, CAFETERIA, FOOD CONCESSION, AND COFFEE SHOP	88%	15,300	11,950
PACKERS AND PACKAGERS, HAND	80%	11,250	11,140
COOKS, FAST FOOD	89%	7,510	9,840

Occupation	Automation Potential	2015	2016
PAINTERS, CONSTRUCTION AND MAINTENANCE	90%	5,720	9,670
DRIVER/SALES WORKERS	81%	9,120	9,360
SEWING MACHINE OPERATORS	98%	8,570	8,790
LAUNDRY AND DRY-CLEANING WORKERS	89%	8,200	7,880
COOKS, SHORT ORDER	91%	6,450	7,210
DATA ENTRY KEYERS	86%	5,680	6,070
JEWELERS AND PRECIOUS STONE AND METAL WORKERS	88%	4,190	6,030
COOKS, INSTITUTION AND CAFETERIA	90%	4,970	5,460
MAIL CLERKS AND MAIL MACHINE OPERATORS, EXCEPT POSTAL SERVICE	94%	4,450	4,770
BAKERS	93%	4,360	4,620
BUS AND TRUCK MECHANICS AND DIESEL ENGINE SPECIALISTS	80%	4,610	4,570
POSTAL SERVICE MAIL SORTERS, PROCESSORS, AND PROCESSING MACHINE OPERATORS	80%	4,750	4,540

The 25 Largest Occupations with Low Automation Potential

Occupation	Automation Potential	2015	2016
HOME HEALTH AIDES	11%	128,970	129,090
ACCOUNTANTS AND AUDITORS	12%	68,380	68,200
TEACHER ASSISTANTS	20%	44,340	47,520
LABORERS AND FREIGHT, STOCK, AND MATERIAL MOVERS, HAND	7%	41,390	45,970
MAIDS AND HOUSEKEEPING CLEANERS	18%	25,460	38,110
MARKET RESEARCH ANALYSTS AND MARKETING SPECIALISTS	13%	39,630	37,420
FINANCIAL ANALYSTS	11%	41,790	37,300
ELEMENTARY SCHOOL TEACHERS, EXCEPT SPECIAL EDUCATION	15%	29,950	36,050

Occupation	Automation Potential	2015	2016
CHILDCARE WORKERS	19%	15,300	35,920
SOFTWARE DEVELOPERS, APPLICATIONS	8%	33,350	33,190
MANAGEMENT ANALYSTS	4%	25,340	31,930
POLICE AND SHERIFF'S PATROL OFFICERS	19%	27,120	28,070
PERSONAL FINANCIAL ADVISORS	12%	20,490	23,250
PUBLIC RELATIONS SPECIALISTS	11%	18,630	23,220
PRODUCERS AND DIRECTORS	13%	19,930	21,580
ADVERTISING SALES AGENTS	20%	17,480	21,160
FIRST-LINE SUPERVISORS OF NON-RETAIL SALES WORKERS	20%	11,960	20,240
PRESCHOOL TEACHERS, EXCEPT SPECIAL EDUCATION	8%	20,180	20,090
HEALTH SPECIALTIES TEACHERS, POSTSECONDARY	17%	11,710	18,260
SECONDARY SCHOOL TEACHERS, EXCEPT SPECIAL AND CAREER/TECHNICAL EDUCATION	20%	19,670	18,130
COMPUTER AND INFORMATION SYSTEMS MANAGERS	19%	16,270	17,500
GRAPHIC DESIGNERS	13%	14,790	17,240
EDITORS	9%	16,060	15,580
LICENSED PRACTICAL AND LICENSED VOCATIONAL NURSES	16%	14,070	14,590
BUSINESS OPERATIONS SPECIALISTS, ALL OTHER	18%	12,910	13,730

The 25 Most Automatable Occupations in NYC

Occupation	Automation Potential	2015	2016
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	100%	3,140	3,300
OPHTHALMIC LABORATORY TECHNICIANS	100%	850	670

Occupation	Automation Potential	2015	2016
PLASTERERS AND STUCCO MASONS	100%	510	530
MOTION PICTURE PROJECTIONISTS	100%	281	281
MACHINE FEEDERS AND OFFBEARERS	100%	290	280
DREDGE OPERATORS	100%	120	120
MEDICAL EQUIPMENT PREPARERS	100%	1,030	1,100
PAPER GOODS MACHINE SETTERS, OPERATORS, AND TENDERS	99%	610	380
PRESSERS, TEXTILE, GARMENT, AND RELATED MATERIALS	99%	770	1,000
SEWING MACHINE OPERATORS	98%	8,570	8,790
PRODUCTION WORKERS, ALL OTHER	97%	650	790
DENTAL LABORATORY TECHNICIANS	97%	470	420
COATING, PAINTING, AND SPRAYING MACHINE SETTERS, OPERATORS, AND TENDERS	97%	340	260
HELPERS--PRODUCTION WORKERS	97%	3,310	3,030
CUTTERS AND TRIMMERS, HAND	97%	570	540
TAILORS, DRESSMAKERS, AND CUSTOM SEWERS	96%	780	780
MEAT, POULTRY, AND FISH CUTTERS AND TRIMMERS	96%	1,260	1,630
GRINDING, LAPING, POLISHING, AND BUFFING MACHINE TOOL SETTERS, OPERATORS, AND TENDERS, METAL AND PLASTIC	95%	330	330
PHOTOGRAPHIC PROCESS WORKERS AND PROCESSING MACHINE OPERATORS	95%	1,040	920
FOOD PROCESSING WORKERS, ALL OTHER	95%	660	660
SUBWAY AND STREETCAR OPERATORS	95%	3,600	3,600

Occupation	Automation Potential	2015	2016
MAIL CLERKS AND MAIL MACHINE OPERATORS, EXCEPT POSTAL SERVICE	94%	4,450	4,770
PLANT AND SYSTEM OPERATORS, ALL OTHER	94%	200	200
BAKERS	93%	4,360	4,620
PREPRESS TECHNICIANS AND WORKERS	93%	580	760

The 25 Least Automatable Occupations in NYC

Occupation	Automation Potential	2015	2016
CLERGY	0%	5,180	5,220
MODELS	0%	3,484	3,484
ATHLETES AND SPORTS COMPETITORS	0%	3,456	3,456
MUSIC DIRECTORS AND COMPOSERS	0%	1,340	2,040
DIRECTORS, RELIGIOUS ACTIVITIES AND EDUCATION	0%	1,310	1,310
AMBULANCE DRIVERS AND ATTENDANTS, EXCEPT EMERGENCY MEDICAL TECHNICIANS	0%	1,120	820
RELIGIOUS WORKERS, ALL OTHER	0%	600	600
DANCERS	0%	2,340	480
ANIMAL TRAINERS	0%	296	296
ACTORS	1%	8,564	9,880
FINANCIAL SPECIALISTS, ALL OTHER	1%	3,070	3,340
MULTIMEDIA ARTISTS AND ANIMATORS	2%	1,700	3,930
PURCHASING AGENTS, EXCEPT WHOLESALE, RETAIL, AND FARM PRODUCTS	2%	6,870	8,170
LOGISTICIANS	2%	1,020	1,100
TRAINING AND DEVELOPMENT SPECIALISTS	2%	9,430	9,400

Occupation	Automation Potential	2015	2016
URBAN AND REGIONAL PLANNERS	3%	740	600
TRANSIT AND RAILROAD POLICE	3%	1,440	1,440
PUBLIC RELATIONS AND FUNDRAISING MANAGERS	3%	4,270	5,200
COMMERCIAL AND INDUSTRIAL DESIGNERS	3%	1,730	2,230
INSTRUCTIONAL COORDINATORS	3%	5,800	5,890
OPERATIONS RESEARCH ANALYSTS	3%	4,010	3,850
CHIROPRACTORS	4%	610	850
ENTERTAINERS AND PERFORMERS, SPORTS AND RELATED WORKERS, ALL OTHER	4%	590	610
MANAGEMENT ANALYSTS	4%	25,340	31,930
WHOLESALE AND RETAIL BUYERS, EXCEPT FARM PRODUCTS	5%	4,190	5,480

Photo Credit: Alek Von Felkerzam / [Twenty20](#)

This report is a publication of the **Middle Class Jobs Project**, a research initiative made possible by the generous support of **Fisher Brothers** and **Winston C. Fisher**.

General operating support for the **Center for an Urban Future** is provided by the **Clark Foundation** and the **Bernard F. and Alva B. Gimbel Foundation**.

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Center for an Urban Future (CUF) is an independent, nonprofit think tank that generates innovative policies to create jobs, reduce inequality and help lower income New Yorkers climb into the middle class. For 20 years, CUF has published accessible, data-driven reports on ways to grow and diversify the economy and expand opportunity that are anchored in rigorous research, not preconceived notions about outcome. Our work has been a powerful catalyst for policy change in New York City and serves as an invaluable resource for government officials, community groups, nonprofit practitioners and business leaders as they advocate for and implement policies to address some of New York's biggest challenges and opportunities.

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