# CHARACTERISTICS OF FRONTLINE ESSENTIAL WORKERS IN NEW YORK STATE September 2021

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WE ARE YOUR DOL

The COVID-19 pandemic brought with it a host of pervasive words and phrases that suddenly had new meaning in our daily lives. One example, "Essential Workforce", became the ubiquitous catch-all for workers who were forced to continue working during lockdowns. The federal Centers for Disease Control defines "essential workers" as "those who conduct a range of operations and services in industries that are essential to ensure the continuity of critical functions in the United States." A subset of this group, the "Frontline Essential" workers, refers to those who perform critical work functions in close physical proximity to other people. "Frontline Essential" workers are at the greatest risk of exposure to COVID-19 as they perform their day-today job duties. Considering this, we need a greater understanding of what constitutes a "Frontline Essential" job, and who is willing to work under such dangerous circumstances. The following report will show which occupations are considered "Frontline Essential" and will also break down the demographic qualities of New Yorkers who fill these critical roles.

#### What is a Frontline Essential Worker?

In March 2020, the federal Cybersecurity and Infrastructure Security Agency (CISA), in collaboration with federal agencies, state and local governments, and the private sector, issued guidance intended to help protect their workers and communities and to ensure the continued safe and secure operation of critical infrastructure. The guidance sought to identify the universe of essential workers that may require specialized risk management strategies so that they can work safely. Identification also allowed stakeholders to plan and prepare for how resources should be allocated to protect these essential workers against COVID-19. (1)

In order to determine the occupations within these critical industries, the Labor Market Information (LMI) Institute and the Council for Community and Economic Research (C2ER) used the CISA memo cited above to identify the Standard Occupational Classification (SOC) definitions connected to medical and healthcare, telecommunications, information technology systems, defense, food and agriculture, transportation and logistics, energy, water and wastewater, law enforcement, and public works industries. (2)

## Characteristics of Frontline Essential Workers

### labor.ny.gov

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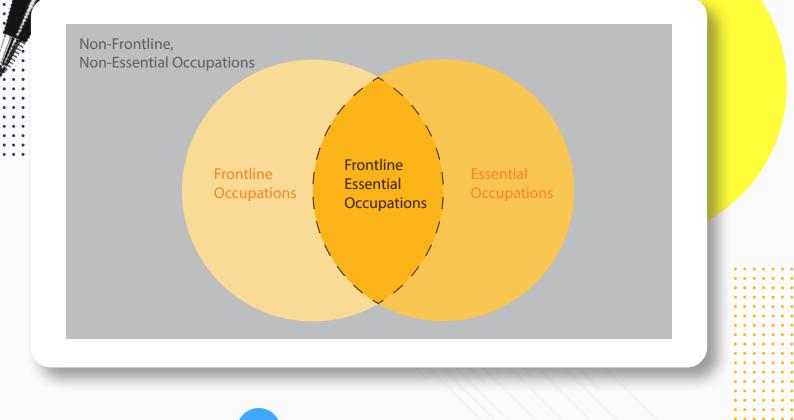


### 1. Composition of All Occupations

Among essential occupations — but not exclusive to them (as shown in the diagram) —are frontline workers who are in close physical proximity to others. We identify these Frontline Essential occupations using the LMI Institute/C2ER list of critical occupations in conjunction with a measure of physical closeness.

The Occupational Information Network (O\*NET), which is an online database developed under the sponsorship of the U.S. Department of Labor's Employment and Training Administration, tracks a wide range of occupational characteristics, including a measure of occupational physical proximity. O\*NET develops this physical proximity measure, or score, through their Work Context questionnaire (3).

Note: Diagram is for illustrative purposes only; shapes therein are not to scale



For each occupation, as defined by O\*NET, a score is assigned based on a respondent's reported physical proximity to others while performing their job duties. The proximity score ranges from 0 to 100, with 0 indicating an occupation in which all tasks are performed beyond 100 feet of other people, and 100 representing a job in which all tasks are performed in a very close proximity (near touching) to other people. Other proximity scores and their interpretation include:

25

Working with others but not

closely such as a private office

Working moderately close with others such as being at arm's length

Working slightly close with others such as a shared office

50

Here, we considered occupations with proximity scores of 75-100 to be those with the greatest potential for viral exposure. We classified these job titles as "Frontline Essential" occupations. Employment and wage data related to these workers was obtained from Economic Modeling Specialists International (EMSI), which provided the data shown on the next page. (4)

100

0

# **2.** Empirical Results

Roughly one in five jobs in New York State were considered Frontline Essential Employment by Frontline and Essential Status, NYS, 2020.

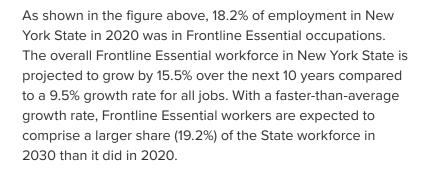
Employment by Frontline and Essential Status, NYS, 2020 Source: Emsi Labor Market Analytics, 2020

### **2,245,875 | 18.2%** Frontline Essential

**10,085,011 | 81.8%** Non-Essential or Non-Frontline

**12.3** Million

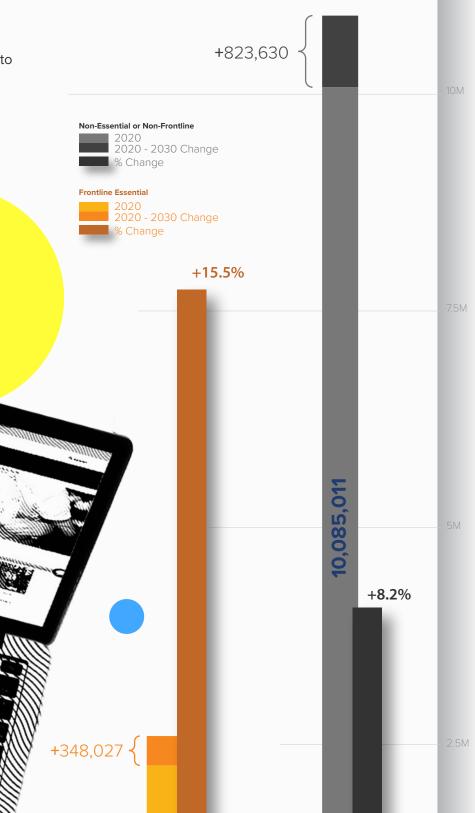
Total 2020 Employment



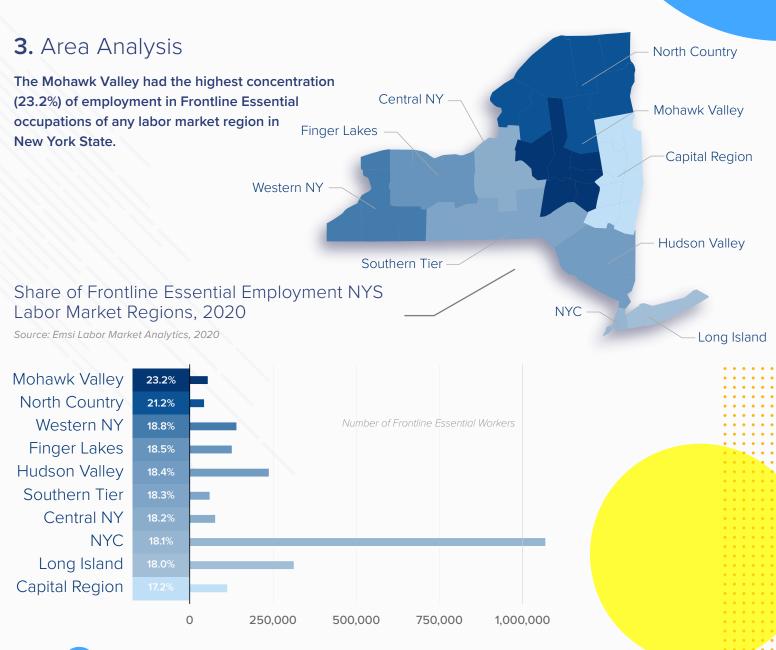
#### Projected Growth in Employment by Frontline & Essential Status, NYS, 2020-2030

Frontline Essential occupations are projected to grow almost 90% faster than Non-Frontline or Non-Essential occupations.

Source: Emsi Labor Market Analytics, 2020



2.245.875



In 2020, New York State's workforce had a higher In general share of Frontline Essential workers (18.2%) than employme

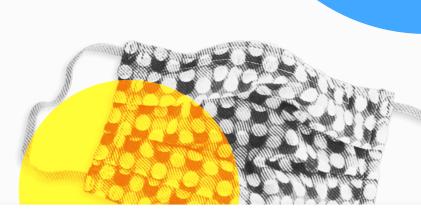
in the nation (17.0%). Within the state, the Mohawk Valley Region (23.2%) had the largest relative share of Frontline Essential workers, while the Capital Region (17.2%) had the smallest. All 10 New York State labor market regions had shares greater than that of the nation. Source: Emsi Labor Market Analytics, 2020

In general, areas with a high concentration of employment in sectors such as healthcare, food services, and protective services, among others, tend to have a higher percentage of Frontline Essential workers. Areas with more diversified economies, as well as those with a large share of employment in higher education, financial services, or other professional services fields typically have a lower percentage of Frontline Essential workers.

### 4. Occupational Employment

Occupations providing Frontline Essential services included food service, critical commerce, healthcare, public safety, education and infrastructure upkeep workers.

Home health and personal care aids comprised roughly one in four Frontline Essential jobs.



## Frontline Essential Occupations Employing the Most Individuals, NYS, 2020-2030

Source: Emsi Labor Market Analytics, 2020

Description	2020 Jobs	2030 Jobs	Net Change	Percent Cha	ange
Home Health and Personal Care Aides	539,650	738,327		198,677	37%
Registered Nurses	189,166	226,194	37,028	2	0%
Cashiers	186,274	174,235	-12,039	-6%	
Fast Food and Counter Workers	180,338	192,943	12,606	7%	
Elementary School Teachers, Except Special Education	92,650	103,487	10,838	12	%
Nursing Assistants	92,438	105,834	13,396	14	%
Carpenters	79,526	80,828	1,302	2%	
Cooks, Restaurant	61,329	63,273	1,944	3%	
Police and Sheriffs Patrol Officers	57,939	65,618	7,679	13	%
Licensed Practical and Licensed Vocational Nurses	48,293	59,221	10,928	2	23%

As shown in the above figure, workers in healthcare positions comprise a large proportion of Frontline Essential jobs. The nearly 540,000 home health and personal care aides, by far, make up the largest amount of Frontline Essential workers in New York State. Workers in this occupation account for 24.0% of the total Frontline Essential workforce. The state's aging population, along with growth in outpatient and in-home care contribute to a projected growth rate of 37.0% over the next decade for home health and personal care aides.

Registered nurses are the state's second largest Frontline Essential occupation, both in terms of total workers (189,200) and percentage (8.4%). Workers in this occupation are often employed at hospitals, doctor's offices and long-term care facilities.

Cashiers are the third most common occupation in the Frontline Essential workforce. There are 186,300 cashiers employed across many different industries throughout the state. As displayed in the figure above, this is the only occupation in the top 10 that is not projected to grow over the next 10 years. Growth in automation and self-checkout kiosks, and online shopping all contribute to an expected decline in the number of workers employed as cashiers in the future.



## The fastest-growing Frontline Essential occupations are in the healthcare field.

All 10 of the top fastest growing Frontline Essential occupations are found in two broad job categories: Healthcare Practitioners and Technical Occupations (SOC 29) and Healthcare Support Occupations (SOC 31). The Frontline Essential occupation that is projected to grow the fastest from 2020 to 2030 is Physical Therapist Assistants (+51%). This represents an over-the-decade increase of 2,817 jobs. The occupation with the largest projected expansion in employment is Home Health and Personal Care Aides (+198,677), which translates to a 37% increase over the 10-year period.

## Frontline Essential Occupations\* with Fastest Projected Growth, NYS, 2020-2030

\*Of those employing at least 1,000 workers in 2020 Source: Emsi Labor Market Analytics, 2020

Description	2020 Jobs	2030 Jobs	Net Change		Percent Change
Physical Therapist Assistants	5,483	8,300	2,817		51%
Occupational Therapy Assistants	2,660	3,859	1,199		45%
Nurse Practitioners	16,398	23,703	7,305		45%
Home Health and Personal Care Aides	539,650	738,327		198,677	37%
Psychiatric Technicians	2,877	3,806	928		32%
Respiratory Therapists	6,233	8,151	1,918		31%
Physical Therapists	17,874	23,018	5,144		29%
Speech-Language Pathologists	17,285	21,775	4,490		26%
Physician Assistants	14,414	18,089	3,675		25%
Occupational Therapists	11,761	14,527	2,766		24%

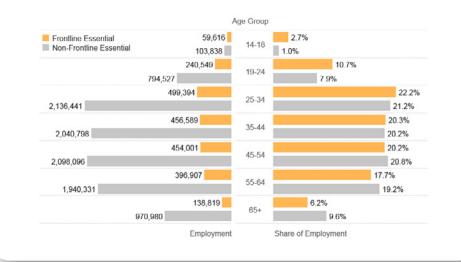
## 5. Demographics

## More than one-third of Frontline Essential workers in the state were ages 14-34.

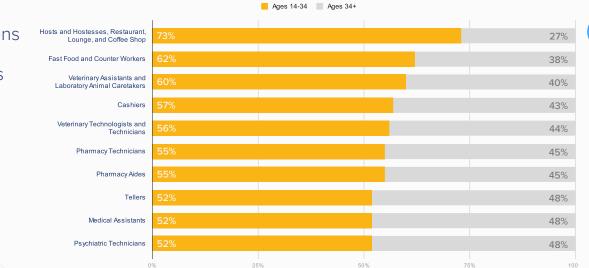
Frontline Essential workers in New York tend to be younger – 36% are 14-34 years of age as compared to 30% of Non-Frontline Essential workers. The Frontline Essential occupations with the greatest share of younger workers (ages 14-34) include: Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop (73%); Fast Food and Counter Workers (62%); Veterinary Assistants and Laboratory Animal Caretakers (60%); Cashiers (57%) and Veterinary Technologists and Technicians (56%).

#### Age Distribution of Frontline Essential & Non-Frontline Essential Workers, NYS, 2020

Source: Emsi Labor Market Analytics, 2020



Frontline Essential occupations with the greatest share of workers ages 14-34 were primarily in the healthcare and food services fields.



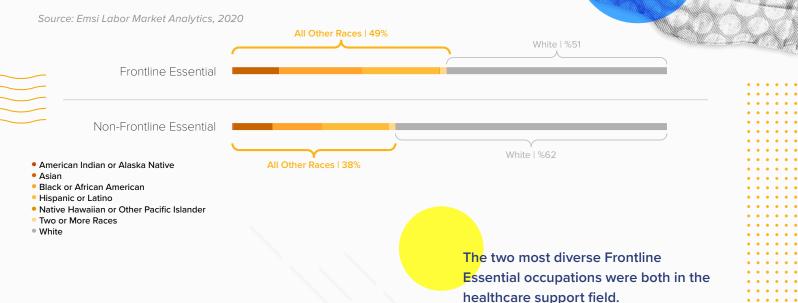
#### Top 10 Occupations Among Frontline Essential Workers Ages 14-34, NYS, 2020

Note: Calculation based on data from Emsi Labor Market Analytics, 2020

#### Frontline Essential workers tend to be more diverse than their counterparts.

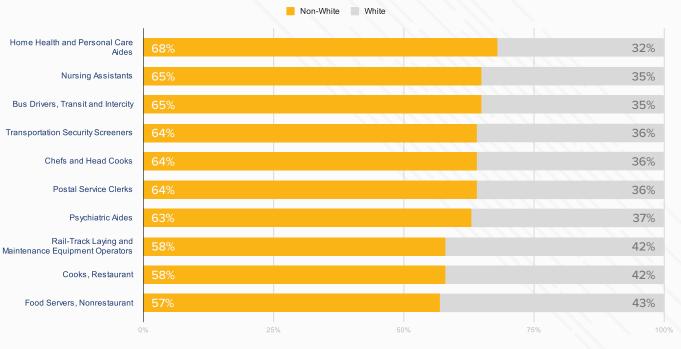
Frontline Essential employees are more diverse than Non-Frontline Essential employees. Nearly half (49%) of Frontline Essential workers in New York are non-white as opposed to 38% of Non-Frontline Essential workers. The most diverse Frontline Essential occupations in New York State are: Home Health and Personal Care Aides (68%); Nursing Assistants (65%), Bus Drivers; Transit and Intercity (65%); Transportation Security Screeners (64%) and Chefs and Head Cooks (64%).

## Racial/Ethnic Composition of Frontline Essential & Non-Frontline Essential Workers, NYS, 2020



#### Top 10 Most Diverse Frontline Essential Occupations, NYS, 2020

Note: Calculation based on data from Emsi Labor Market Analytics, 2020



#### Women comprised almost two-thirds of the NYS Frontline Essential workforce.

The majority of Frontline Essential workers in New York are women (65%), in contrast to Non-Frontline Essential workers, where men hold the majority. In New York State, a greater share of workers in the following Frontline Essential occupations are female: Kindergarten Teachers, Except Special Education (97%); Preschool Teachers, Except Special Education (96%); Speech-Language Pathologists (95%); Dental Assistants (94%), Medical Assistants (91%) and Nurse Practitioners (91%).

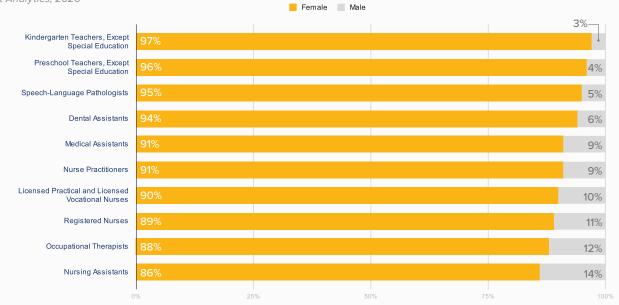
Source: Emsi Labor Market Analytics, 2020

The two Frontline Essential jobs with the highest percentage of female workers were in the educational instruction field.

> Male 54.6% | 5.510.383

#### Top 10 Most Female Frontline Essential Occupations, NYS, 2020

Note: Calculation based on data from Emsi Labor Market Analytics, 2020



Non-Frontline Essential

Male

35.3% | 792,976

Frontline Essential

Female 64.7% | 1.452.899

Female 45.4% | 4,574,628

### 6. Earnings

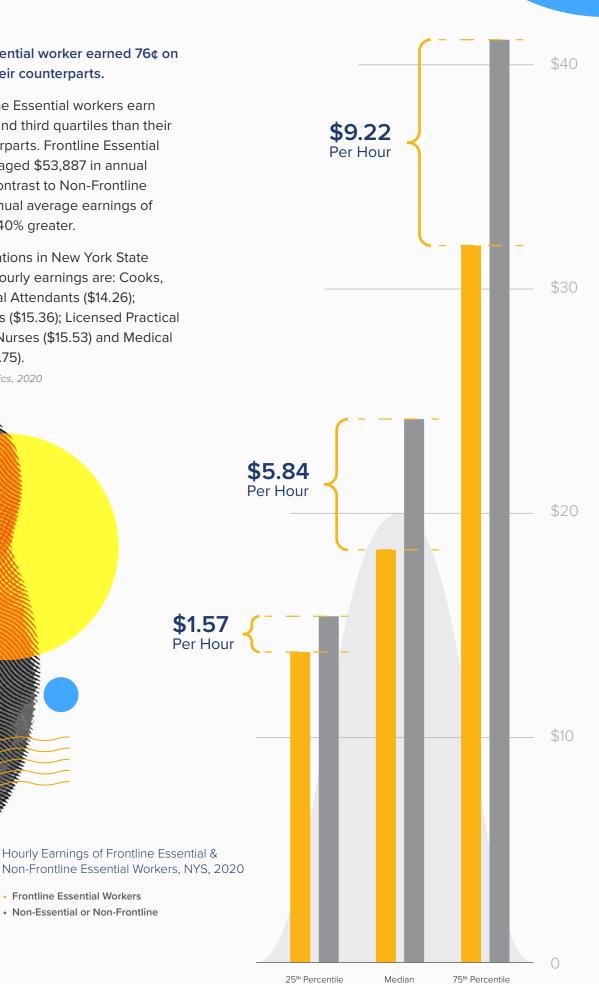
#### The median Frontline Essential worker earned 76¢ on the dollar compared to their counterparts.

As indicated, Non-Frontline Essential workers earn more at the first, second and third guartiles than their Frontline Essential counterparts. Frontline Essential workers in New York averaged \$53,887 in annual earnings. This stands in contrast to Non-Frontline Essential workers with annual average earnings of \$74,005, which is almost 40% greater.

Frontline Essential occupations in New York State with the lowest average hourly earnings are: Cooks, Restaurant (\$14.14); Funeral Attendants (\$14.26); Butchers and Meat Cutters (\$15.36); Licensed Practical and Licensed Vocational Nurses (\$15.53) and Medical Equipment Preparers (\$15.75).

> Frontline Essential Workers • Non-Essential or Non-Frontline

Source: Emsi Labor Market Analytics, 2020



## 7. Industrial Employment

#### The majority of the 10 industries with the largest share of Frontline Essential workers were in the Healthcare and Social Assistance sector.

Almost half (45%) of all Frontline Essential jobs were in the Healthcare and Social Assistance sector. Industries employing the largest number of Frontline Essential occupations include those which provide food/drink, medical services, education or public service.

Except for Gasoline Stations with Convenience Stores (NAICS 447110), the top 10 industries with the largest shares of Frontline Essential workers were in either the Healthcare and Social Assistance (NAICS 62) sector or the Restaurants and Other Eating Places (NAICS 72251) industry. Four out of the six Healthcare and Social Assistance industries were in the Nursing and Residential Care Facilities (NAICS 623) subsector.

#### Industries with Largest Share of Frontline Essential Workers, NYS, 2020

Source: Emsi Labor Market Analytics, 2020

NAICS	Industry	Frontline Essential Employment (2020)	Frontline Essential Share of Industry Workforce	
621610	Home Health Care Services	265,525	91.4%	
624120	Services for the Elderly & Persons with Disabilities	163,180	87.3%	
623210	Residential Intellectual & Developmental Disability Facilities	49,336	80.7%	
722515	Snack & Nonalcoholic Beverage Bars	41,051	78.6%	
722513	Limited-Service Restaurants	134,333	78.5%	
722514	Cafeterias, Grill Buffets & Buffets	3,025	74.8%	
623311	Continuing Care Retirement Communities	7,511	73.2%	
623312	Assisted Living Facilities for the Elderly	15,283	72.4%	
623110	Nursing Care Facilities (Skilled Nursing Facilities)	83,051	71.1%	
447110	Gasoline Stations with Convenience Stores	17,840	70.6%	

## Nine of the top 10 fastest-growing industries by projected Frontline Essential employment were in the Healthcare and Social Assistance sector.

The Home Healthcare Services (NAICS 621610) industry is projected to grow its Frontline Essential workforce by 58% over the 10-year period ending 2030. This represents the fastest growth rate of all six-digit NAICS industries employing at least 1,000 Frontline Essential workers in 2020. The industry is projected to add 153,827 Frontline Essential jobs over this time period, making it the largest growing industry as well.

Of the top 10 fastest-growing industries by projected Frontline Essential employment, nine were in the Healthcare and Social Assistance sector. Office Administrative Services (NAICS 561110) was the only non-healthcare or social services industry to make the top 10. In 2020, the industry employed people in 36 Frontline Essential occupations which accounted for only 2.8% of total employment in the industry. However, the industry's Frontline Essential employment is projected to grow by 54% over the decade, outpacing the industry's total projected growth rate (+28%). As a result, the industry's share of Frontline Essential occupations is projected to increase from 2.8% to 3.2% over this time period.

## Industries with Fastest Projected Growth in Frontline Essential Employment, NYS, 2020–2030

\*Of those that employed at least 1,000 Frontline Essential workers in 2020 Source: Emsi Labor Market Analytics, 2020

NAICS Industry*		Frontline Esse	ential Employment	Net Change	Percent Change	
1000	muuuy	2020	2030	Not onlinge	r orcont onango	
621610	Home Health Care Services	265,525	419,352	153,827	58%	
623311	Continuing Care Retirement Communities	7,511	11,556	4,044	54%	
561110	Office Administrative Services	1,577	2,329	752	48%	
622310	Specialty (except Psychiatric and Substance Abuse) Hospitals	11,993	17,513	5,521	46%	
621493	Freestanding Ambulatory Surgical an Emergency Centers	id 3,832	5,358	1,525	40%	
624120	Services for the Elderly and Persons with Disabilities	163,180	227,429	64,249	39%	
621492	Kidney Dialysis Centers	3,105	4,245	1,140	37%	
621340	Offices of Physical, Occupational and Speech Therapists, and Audiologists		25,387	6,803	37%	
621498	All Other Outpatient Care Centers	7,699	10,297	2,599	34%	
622210	Psychiatric and Substance Abuse Hospitals	2,880	3,842	962	33%	



As the COVID-19 pandemic persists around the globe, it should come as no surprise to learn that the healthcare industry has the highest share of Frontline Essential workers. And with nearly every sector that employs Frontline Essential workers projecting growth in the years to come, we can expect a correlating increase in demand for people willing to take on these hazardous roles. The people taking these roles tend to be young and quite diverse, with a large majority of women. And despite the heightened importance of their jobs and the danger associated with them, Frontline Essential workers earned almost 25% less than their non-essential counterparts. At the height of lockdowns, there was a clarion call for Frontline Essential workers to receive recognition for their bravery and increased compensation for the jobs they performed. Perhaps this is an argument worth revisiting.

### 8. For Further Information

Questions regarding this report should be directed to Jeffrey Sorensen, Chief of the Bureau of Labor Market Information. He can be reached via email at Jeffrey.Sorensen@labor.ny.gov or by phone at 518-457-3800.

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### 9. Appendix

#### References

- 1. Cybersecurity and Infrastructure Security Agency (CISA)
  - GUIDANCE ON THE ESSENTIAL CRITICAL INFRASTRUCTURE WORKFORCE cisa.gov/publication/guidance-essential-critical-infrastructure-workforce
    - Provides Broad Essential Industry Categories

#### 2. LMI Institute and C2ER

The LMI Institute and C2ER used the DHS memo to identify the Standard Occupational Classification (SOC) definitions connected to medical and healthcare, telecommunications, information technology systems, defense, food and agriculture, transportation and logistics, energy, water and wastewater, law enforcement, and public works industries
 Imiontheweb.org/wp-content/uploads/sites/4/2020/03/SOC-Codes-CISA-Critical-Infrastructure-Workers-

Imiontheweb.org/wp-content/uploads/sites/4/2020/03/SOC-Codes-CISA-Critical-Infrastructure-Workerswith-OES-Data-Rev-1.xlsx

#### 3. O\*NET Online

- The O\*NET program is the nation's primary source of occupational information. Central to the project is the O\*NET database, containing information on hundreds of standardized and occupation-specific descriptors. The database is continually updated by surveying a broad range of workers from each occupation. Information from this freely available database forms the heart of O\*NET OnLine, the interactive application for exploring and searching occupations. The database also provides the basis for our Career Exploration Tools, a set of valuable assessment instruments for workers and students looking to find or change careers.
  - Physical Proximity Score To what extent does this job require the worker to perform job tasks in close physical proximity to other people? onetonline.org/find/descriptor/result/4.C.2.a.3

#### 4. Economic Modeling Specialist International (EMSI)

• The labor market data provider aggregates and displays an array of statistics in order to better describe the market for labor. Their "Developer" Product allows subscribers to, among many other data elements, extract employment, wage and worker demographic information. economicmodeling.com

### Frontline Essential Occupation List

11-9031Education and Childcare Administrators, Preschool and Daycare11-9051Food Service Managers21-1022Healthcare Social Workers	
5	
21-1022 Healthcare Social Workers	
21-1094 Community Health Workers	
25-1031 Architecture Teachers, Postsecondary	
25-1194 Career/Technical Education Teachers, Postsecondary	
25-2011 Preschool Teachers, Except Special Education	
25-2012 Kindergarten Teachers, Except Special Education	
25-2021 Elementary School Teachers, Except Special Education	
25-2023 Career/Technical Education Teachers, Middle School	
25-2032 Career/Technical Education Teachers, Secondary School	
25-2051 Special Education Teachers, Preschool	
25-2057 Special Education Teachers, Middle School	
25-2059 Special Education Teachers, All Other	
29-1021 Dentists, General	
29-1071 Physician Assistants	
29-1122 Occupational Therapists	
29-1123 Physical Therapists	
29-1126 Respiratory Therapists	
29-1127 Speech-Language Pathologists	
29-1131 Veterinarians	
29-1141 Registered Nurses	
29-1171 Nurse Practitioners	
29-1215 Family Medicine Physicians	
29-1216 General Internal Medicine Physicians	
29-1221 Pediatricians, General	
29-2031 Cardiovascular Technologists and Technicians	
29-2033 Nuclear Medicine Technologists	
29-2052 Pharmacy Technicians	
29-2053 Psychiatric Technicians	
29-2055 Surgical Technologists	
29-2056 Veterinary Technologists and Technicians	
29-2061 Licensed Practical and Licensed Vocational Nurses	
<b>31-1120</b> Home Health and Personal Care Aides	

31-1131Nursing Assistants31-1133Psychiatric Aides31-2011Occupational Therapy Assistants31-2021Physical Therapist Assistants31-9091Dental Assistants31-9092Medical Assistants31-9093Medical Equipment Preparers31-9096Veterinary Assistants and Laboratory Animal Caretakers31-9097Philebotomists31-9098Veterinary Assistants and Laboratory Animal Caretakers31-9099Healthcare Support Workers, All Other33-1011First-Line Supervisors of Correctional Officers33-1012First-Line Supervisors of Police and Detectives33-1021First-Line Supervisors of Police and Detectives33-3051Police and Sheriff's Patrol Officers33-3052Transportation Security Screeners35-1011Chefs and Head Cooks35-1012First-Line Supervisors of Food Preparation and Serving Workers35-3053Fast Food and Counter Workers35-3054Food Servers, Non-Restaurant35-9015Dining Room and Cafeteria Attendants and Bartender Helpers35-9014Cashiers33-3051Polices33-3071Tellers43-3071Tellers43-3071Filers47-2011Electricians47-2011Electricians47-4061Rail-Track Laying and Maintenance Equipment Operators47-4061Rail-Track Laying and Sevier Pipe Cleaners	SOC Code	SOC Title
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<ul> <li>35-9031 Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop</li> <li>39-4021 Funeral Attendants</li> <li>41-2011 Cashiers</li> <li>43-3071 Tellers</li> <li>43-5051 Postal Service Clerks</li> <li>47-1011 First-Line Supervisors of Construction Trades and Extraction Workers</li> <li>47-2031 Carpenters</li> <li>47-2111 Electricians</li> <li>47-2151 Pipelayers</li> <li>47-4061 Rail-Track Laying and Maintenance Equipment Operators</li> </ul>	35-3041	Food Servers, Non-Restaurant
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47-2111Electricians47-2151Pipelayers47-4061Rail-Track Laying and Maintenance Equipment Operators	47-1011	First-Line Supervisors of Construction Trades and Extraction Workers
47-2151Pipelayers47-4061Rail-Track Laying and Maintenance Equipment Operators	47-2031	Carpenters
47-4061 Rail-Track Laying and Maintenance Equipment Operators	47-2111	Electricians
	47-2151	Pipelayers
47-4071 Septic Tank Servicers and Sewer Pipe Cleaners	47-4061	Rail-Track Laying and Maintenance Equipment Operators
	47-4071	Septic Tank Servicers and Sewer Pipe Cleaners

SOC Code	SOC Title
47-5011	Derrick Operators, Oil and Gas
47-5012	Rotary Drill Operators, Oil and Gas
47-5013	Service Unit Operators, Oil and Gas
47-5071	Roustabouts, Oil and Gas
49-2021	Radio, Cellular, and Tower Equipment Installers and Repairers
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay
51-2051	Fiberglass Laminators and Fabricators
51-3021	Butchers and Meat Cutters
51-3022	Meat, Poultry, and Fish Cutters and Trimmers
53-2011	Airline Pilots, Copilots, and Flight Engineers
53-2012	Commercial Pilots
53-2021	Air Traffic Controllers
53-3052	Bus Drivers, Transit and Intercity
53-5022	Motorboat Operators

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