

Background on ‘Remote Possible’ Classifications

This article uses classifications of “remote possible” occupations identified by Dingel and Neiman (2020) as a starting point. Our classification narrowed the list by recognizing that some jobs performed remotely in 2020 may not be jobs that are well positioned to be remote indefinitely. In our analysis, jobs were classified as “remote possible” if a firm theoretically would hire a person to perform the role in a different physical location *that would ordinarily be performed at the firm’s location*. Our analysis seeks to evaluate whether an occupation can be performed seamlessly in any location.

Many jobs require individuals to be onsite. Even at the height of the pandemic emergency, these jobs were not able to be performed remotely. Jobs like these – such as cooks, dentists, lab technicians, or production workers – are classified as “not remote possible.”

Some jobs may appear to be “remote” but are not a seamless differentiation between a headquarters and remote location. For example, truck drivers are classified as “not remote possible.” Clearly, a trucking company hires a truck driver and that person moves goods throughout the country, distant from the headquarters location. However, the responsibilities of a truck driver cannot be carried out at the headquarters location. Thus, the occupation is not classified as “remote possible” by our methodology.

The pandemic highlighted the fact that many jobs can be performed at home in a modern economy. However, in a post-pandemic world, some occupations that have been performed at home will return to the primary site of the employer. For example, it seems unlikely that teachers will take remote jobs in the future even though it was possible for teachers to work from home during the pandemic emergency. Health-care professionals are another example; telehealth services may be on the rise, but the bulk of health-care employees likely will be required to remain onsite.

Nevertheless, some occupations may be positioned to transition to a remote environment. For example, most business and financial jobs (such as accountants, budget analysts and financial advisors) can perform the same task remotely that might be accomplished in a physical office. Different employers may have different preferences for their workforces but, in theory, jobs like these may be performed anywhere.

Our analysis attempts to look beyond the pandemic to categorize occupations that might be done remotely for firms located elsewhere on a long-term basis. There, admittedly, is a large amount of subjectivity in this exercise. For clarity and transparency, the following list is the classification of “remote possible jobs” and “not remote possible jobs” used in the analysis for the article. These occupations are sorted by the Office of Management and Budget’s Standard Occupational Classification (SOC) system. A full list and accompanying definitions of occupations included in the BLS’s Occupational Employment and Wage Statistics can be found [here](#).

Remote Possible Jobs

11-2011 Advertising and Promotions Managers

11-2021 Marketing Managers
11-2022 Sales Managers
11-2030 Public Relations and Fundraising Managers
11-3021 Computer and Information Systems Managers
11-3031 Financial Managers
11-3061 Purchasing Managers
11-3111 Compensation and Benefits Managers
11-3121 Human Resources Managers
11-3131 Training and Development Managers
11-9041 Architectural and Engineering Managers
13-1011 Agents and Business Managers of Artists, Performers, and Athletes
13-1020 Buyers and Purchasing Agents
13-1031 Claims Adjusters, Examiners, and Investigators
13-1041 Compliance Officers
13-1051 Cost Estimators
13-1071 Human Resources Specialists
13-1075 Labor Relations Specialists
13-1081 Logisticians
13-1111 Management Analysts
13-1131 Fundraisers
13-1141 Compensation, Benefits, and Job Analysis Specialists
13-1151 Training and Development Specialists
13-1161 Market Research Analysts and Marketing Specialists
13-1198 Project Management Specialists and Business Operations Specialists, All Other
13-2011 Accountants and Auditors
13-2031 Budget Analysts
13-2041 Credit Analysts
13-2052 Personal Financial Advisors
13-2053 Insurance Underwriters
13-2061 Financial Examiners
13-2071 Credit Counselors
13-2072 Loan Officers
13-2081 Tax Examiners and Collectors, and Revenue Agents
13-2082 Tax Preparers
13-2098 Financial and Investment Analysts, Financial Risk Specialists, and Financial Specialists, All Other
15-1211 Computer Systems Analysts
15-1212 Information Security Analysts
15-1221 Computer and Information Research Scientists
15-1231 Computer Network Support Specialists
15-1232 Computer User Support Specialists
15-1241 Computer Network Architects
15-1244 Network and Computer Systems Administrators

15-1245 Database Administrators and Architects
15-1251 Computer Programmers
15-1256 Software Developers and Software Quality Assurance Analysts and Testers
15-1257 Web Developers and Digital Interface Designers
15-1299 Computer Occupations, All Other
15-2011 Actuaries
15-2021 Mathematicians
15-2031 Operations Research Analysts
15-2041 Statisticians
15-2098 Data Scientists and Mathematical Science Occupations, All Other
17-1011 Architects, Except Landscape and Naval
17-3011 Architectural and Civil Drafters
17-3012 Electrical and Electronics Drafters
17-3013 Mechanical Drafters
17-3019 Drafters, All Other
19-3011 Economists
19-3022 Survey Researchers
19-3032 Industrial-Organizational Psychologists
19-3039 Psychologists, All Other
19-3041 Sociologists
19-3093 Historians
19-3094 Political Scientists
19-4061 Social Science Research Assistants
27-1012 Craft Artists
27-1013 Fine Artists, Including Painters, Sculptors, and Illustrators
27-1014 Special Effects Artists and Animators
27-1019 Artists and Related Workers, All Other
27-1021 Commercial and Industrial Designers
27-1024 Graphic Designers
27-1027 Set and Exhibit Designers
27-1029 Designers, All Other
27-3031 Public Relations Specialists
27-3041 Editors
27-3042 Technical Writers
27-3043 Writers and Authors
27-4032 Film and Video Editors
41-2022 Parts Salespersons
41-3011 Advertising Sales Agents
41-3021 Insurance Sales Agents
41-3031 Securities, Commodities, and Financial Services Sales Agents
41-3041 Travel Agents
41-3091 Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel

41-4011 Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products
41-4012 Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products
41-9031 Sales Engineers
41-9041 Telemarketers
43-2011 Switchboard Operators, Including Answering Service
43-2021 Telephone Operators
43-2099 Communications Equipment Operators, All Other
43-3011 Bill and Account Collectors
43-3031 Bookkeeping, Accounting, and Auditing Clerks
43-4051 Customer Service Representatives
43-4111 Interviewers, Except Eligibility and Loan
43-5031 Public Safety Telecommunicators
43-5032 Dispatchers, Except Police, Fire, and Ambulance
43-9021 Data Entry Keyers
43-9022 Word Processors and Typists
43-9031 Desktop Publishers
43-9041 Insurance Claims and Policy Processing Clerks
43-9081 Proofreaders and Copy Markers
43-9111 Statistical Assistants

Not Remote Possible Jobs

11-1011 Chief Executives
11-1021 General and Operations Managers
11-1031 Legislators
11-3010 Administrative Services and Facilities Managers
11-3051 Industrial Production Managers
11-3071 Transportation, Storage, and Distribution Managers
11-9013 Farmers, Ranchers, and Other Agricultural Managers
11-9021 Construction Managers
11-9031 Education and Childcare Administrators, Preschool and Daycare
11-9032 Education Administrators, Kindergarten through Secondary
11-9033 Education Administrators, Postsecondary
11-9039 Education Administrators, All Other
11-9051 Food Service Managers
11-9071 Gambling Managers
11-9081 Lodging Managers
11-9111 Medical and Health Services Managers
11-9121 Natural Sciences Managers
11-9131 Postmasters and Mail Superintendents
11-9141 Property, Real Estate, and Community Association Managers
11-9151 Social and Community Service Managers

11-9161 Emergency Management Directors
11-9171 Funeral Home Managers
Personal Service Managers, All Other; Entertainment and Recreation Managers, Except
11-9198 Gambling; and Managers, All Other
13-1032 Insurance Appraisers, Auto Damage
13-1121 Meeting, Convention, and Event Planners
13-2020 Property Appraisers and Assessors
17-1012 Landscape Architects
17-1021 Cartographers and Photogrammetrists
17-1022 Surveyors
17-2011 Aerospace Engineers
17-2021 Agricultural Engineers
17-2031 Bioengineers and Biomedical Engineers
17-2041 Chemical Engineers
17-2051 Civil Engineers
17-2061 Computer Hardware Engineers
17-2071 Electrical Engineers
17-2072 Electronics Engineers, Except Computer
17-2081 Environmental Engineers
17-2111 Health and Safety Engineers, Except Mining Safety Engineers and Inspectors
17-2112 Industrial Engineers
17-2121 Marine Engineers and Naval Architects
17-2131 Materials Engineers
17-2141 Mechanical Engineers
17-2151 Mining and Geological Engineers, Including Mining Safety Engineers
17-2161 Nuclear Engineers
17-2171 Petroleum Engineers
17-2199 Engineers, All Other
17-3021 Aerospace Engineering and Operations Technologists and Technicians
17-3022 Civil Engineering Technologists and Technicians
17-3023 Electrical and Electronic Engineering Technologists and Technicians
17-3024 Electro-Mechanical and Mechatronics Technologists and Technicians
17-3025 Environmental Engineering Technologists and Technicians
17-3026 Industrial Engineering Technologists and Technicians
17-3027 Mechanical Engineering Technologists and Technicians
17-3031 Surveying and Mapping Technicians
Calibration Technologists and Technicians and Engineering Technologists and Technicians,
17-3098 Except Drafters, All Other
19-1011 Animal Scientists
19-1012 Food Scientists and Technologists
19-1013 Soil and Plant Scientists
19-1021 Biochemists and Biophysicists
19-1022 Microbiologists

19-1023 Zoologists and Wildlife Biologists
19-1029 Biological Scientists, All Other
19-1031 Conservation Scientists
19-1032 Foresters
19-1041 Epidemiologists
19-1042 Medical Scientists, Except Epidemiologists
19-1099 Life Scientists, All Other
19-2011 Astronomers
19-2012 Physicists
19-2021 Atmospheric and Space Scientists
19-2031 Chemists
19-2032 Materials Scientists
19-2041 Environmental Scientists and Specialists, Including Health
19-2042 Geoscientists, Except Hydrologists and Geographers
19-2043 Hydrologists
19-2099 Physical Scientists, All Other
19-3031 Clinical, Counseling, and School Psychologists
19-3051 Urban and Regional Planners
19-3091 Anthropologists and Archeologists
19-3092 Geographers
19-3099 Social Scientists and Related Workers, All Other
19-4010 Agricultural and Food Science Technicians
19-4021 Biological Technicians
19-4031 Chemical Technicians
19-4042 Environmental Science and Protection Technicians, Including Health
19-4045 Geological and Hydrologic Technicians
19-4051 Nuclear Technicians
19-4071 Forest and Conservation Technicians
19-4092 Forensic Science Technicians
19-4099 Life, Physical, and Social Science Technicians, All Other
19-5011 Occupational Health and Safety Specialists
19-5012 Occupational Health and Safety Technicians
21-1012 Educational, Guidance, and Career Counselors and Advisors
21-1013 Marriage and Family Therapists
21-1015 Rehabilitation Counselors
21-1018 Substance Abuse, Behavioral Disorder, and Mental Health Counselors
21-1019 Counselors, All Other
21-1021 Child, Family, and School Social Workers
21-1022 Healthcare Social Workers
21-1023 Mental Health and Substance Abuse Social Workers
21-1029 Social Workers, All Other
21-1091 Health Education Specialists
21-1092 Probation Officers and Correctional Treatment Specialists

21-1093 Social and Human Service Assistants
21-1094 Community Health Workers
21-1099 Community and Social Service Specialists, All Other
21-2011 Clergy
21-2021 Directors, Religious Activities and Education
21-2099 Religious Workers, All Other
23-1011 Lawyers
23-1012 Judicial Law Clerks
23-1021 Administrative Law Judges, Adjudicators, and Hearing Officers
23-1022 Arbitrators, Mediators, and Conciliators
23-1023 Judges, Magistrate Judges, and Magistrates
23-2011 Paralegals and Legal Assistants
23-2093 Title Examiners, Abstractors, and Searchers
23-2099 Legal Support Workers, All Other
25-1011 Business Teachers, Postsecondary
25-1021 Computer Science Teachers, Postsecondary
25-1022 Mathematical Science Teachers, Postsecondary
25-1031 Architecture Teachers, Postsecondary
25-1032 Engineering Teachers, Postsecondary
25-1041 Agricultural Sciences Teachers, Postsecondary
25-1042 Biological Science Teachers, Postsecondary
25-1051 Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary
25-1052 Chemistry Teachers, Postsecondary
25-1053 Environmental Science Teachers, Postsecondary
25-1054 Physics Teachers, Postsecondary
25-1061 Anthropology and Archeology Teachers, Postsecondary
25-1062 Area, Ethnic, and Cultural Studies Teachers, Postsecondary
25-1063 Economics Teachers, Postsecondary
25-1064 Geography Teachers, Postsecondary
25-1065 Political Science Teachers, Postsecondary
25-1066 Psychology Teachers, Postsecondary
25-1067 Sociology Teachers, Postsecondary
25-1069 Social Sciences Teachers, Postsecondary, All Other
25-1071 Health Specialties Teachers, Postsecondary
25-1072 Nursing Instructors and Teachers, Postsecondary
25-1081 Education Teachers, Postsecondary
25-1082 Library Science Teachers, Postsecondary
25-1111 Criminal Justice and Law Enforcement Teachers, Postsecondary
25-1112 Law Teachers, Postsecondary
25-1113 Social Work Teachers, Postsecondary
25-1121 Art, Drama, and Music Teachers, Postsecondary
25-1122 Communications Teachers, Postsecondary
25-1123 English Language and Literature Teachers, Postsecondary

25-1124 Foreign Language and Literature Teachers, Postsecondary
25-1125 History Teachers, Postsecondary
25-1126 Philosophy and Religion Teachers, Postsecondary
25-1192 Family and Consumer Sciences Teachers, Postsecondary
25-1193 Recreation and Fitness Studies Teachers, Postsecondary
25-1194 Career/Technical Education Teachers, Postsecondary
25-1199 Postsecondary Teachers, All Other
25-2011 Preschool Teachers, Except Special Education
25-2012 Kindergarten Teachers, Except Special Education
25-2021 Elementary School Teachers, Except Special Education
25-2022 Middle School Teachers, Except Special and Career/Technical Education
25-2023 Career/Technical Education Teachers, Middle School
25-2031 Secondary School Teachers, Except Special and Career/Technical Education
25-2032 Career/Technical Education Teachers, Secondary School
25-2051 Special Education Teachers, Preschool
25-2052 Special Education Teachers, Kindergarten and Elementary School
25-2057 Special Education Teachers, Middle School
25-2058 Special Education Teachers, Secondary School
25-2059 Special Education Teachers, All Other
Adult Basic Education, Adult Secondary Education, and English as a Second Language
25-3011 Instructors
25-3021 Self-Enrichment Teachers
25-3031 Substitute Teachers, Short-Term
25-3097 Tutors and Teachers and Instructors, All Other
25-4011 Archivists
25-4012 Curators
25-4013 Museum Technicians and Conservators
25-4022 Librarians and Media Collections Specialists
25-4031 Library Technicians
25-9021 Farm and Home Management Educators
25-9031 Instructional Coordinators
25-9044 Teaching Assistants, Postsecondary
25-9045 Teaching Assistants, Except Postsecondary
25-9099 Educational Instruction and Library Workers, All Other
27-1011 Art Directors
27-1022 Fashion Designers
27-1023 Floral Designers
27-1025 Interior Designers
27-1026 Merchandise Displayers and Window Trimmers
27-2011 Actors
27-2012 Producers and Directors
27-2021 Athletes and Sports Competitors
27-2022 Coaches and Scouts

27-2023 Umpires, Referees, and Other Sports Officials
27-2031 Dancers
27-2032 Choreographers
27-2041 Music Directors and Composers
27-2042 Musicians and Singers
27-2090 Miscellaneous Entertainers and Performers, Sports and Related Workers
27-3011 Broadcast Announcers and Radio Disc Jockeys
27-3023 News Analysts, Reporters, and Journalists
27-3091 Interpreters and Translators
27-3092 Court Reporters and Simultaneous Captioners
27-3099 Media and Communication Workers, All Other
27-4011 Audio and Video Technicians
27-4012 Broadcast Technicians
27-4014 Sound Engineering Technicians
27-4021 Photographers
27-4031 Camera Operators, Television, Video, and Film
27-4098 Lighting Technicians and Media and Communication Equipment Workers, All Other
29-1011 Chiropractors
29-1021 Dentists, General
29-1022 Oral and Maxillofacial Surgeons
29-1023 Orthodontists
29-1029 Dentists, All Other Specialists
29-1031 Dietitians and Nutritionists
29-1041 Optometrists
29-1051 Pharmacists
29-1071 Physician Assistants
29-1081 Podiatrists
29-1122 Occupational Therapists
29-1123 Physical Therapists
29-1124 Radiation Therapists
29-1125 Recreational Therapists
29-1126 Respiratory Therapists
29-1127 Speech-Language Pathologists
29-1128 Exercise Physiologists
29-1129 Therapists, All Other
29-1131 Veterinarians
29-1141 Registered Nurses
29-1151 Nurse Anesthetists
29-1161 Nurse Midwives
29-1171 Nurse Practitioners
29-1181 Audiologists
29-1211 Anesthesiologists
29-1215 Family Medicine Physicians

29-1216 General Internal Medicine Physicians
29-1218 Obstetricians and Gynecologists
29-1221 Pediatricians, General
29-1223 Psychiatrists
29-1228 Physicians, All Other; and Ophthalmologists, Except Pediatric
29-1248 Surgeons, Except Ophthalmologists
29-1292 Dental Hygienists
29-1298 Acupuncturists and Healthcare Diagnosing or Treating Practitioners, All Other
29-2010 Clinical Laboratory Technologists and Technicians
29-2031 Cardiovascular Technologists and Technicians
29-2032 Diagnostic Medical Sonographers
29-2033 Nuclear Medicine Technologists
29-2034 Radiologic Technologists and Technicians
29-2035 Magnetic Resonance Imaging Technologists
29-2040 Emergency Medical Technicians and Paramedics
29-2051 Dietetic Technicians
29-2052 Pharmacy Technicians
29-2053 Psychiatric Technicians
29-2055 Surgical Technologists
29-2056 Veterinary Technologists and Technicians
29-2057 Ophthalmic Medical Technicians
29-2061 Licensed Practical and Licensed Vocational Nurses
29-2081 Opticians, Dispensing
29-2091 Orthotists and Prosthetists
29-2092 Hearing Aid Specialists
29-2098 Medical Dosimetrists, Medical Records Specialists, and Health Technologists and Technicians, All Other
29-9091 Athletic Trainers
29-9092 Genetic Counselors
29-9098 Health Information Technologists, Medical Registrars, Surgical Assistants, and Healthcare Practitioners and Technical Workers, All Other
31-1120 Home Health and Personal Care Aides
31-1131 Nursing Assistants
31-1132 Orderlies
31-1133 Psychiatric Aides
31-2011 Occupational Therapy Assistants
31-2012 Occupational Therapy Aides
31-2021 Physical Therapist Assistants
31-2022 Physical Therapist Aides
31-9011 Massage Therapists
31-9091 Dental Assistants
31-9092 Medical Assistants
31-9093 Medical Equipment Preparers

31-9094 Medical Transcriptionists
31-9095 Pharmacy Aides
31-9096 Veterinary Assistants and Laboratory Animal Caretakers
31-9097 Phlebotomists
31-9099 Healthcare Support Workers, All Other
33-1011 First-Line Supervisors of Correctional Officers
33-1012 First-Line Supervisors of Police and Detectives
33-1021 First-Line Supervisors of Firefighting and Prevention Workers
33-1090 Miscellaneous First-Line Supervisors, Protective Service Workers
33-2011 Firefighters
33-2021 Fire Inspectors and Investigators
33-2022 Forest Fire Inspectors and Prevention Specialists
33-3011 Bailiffs
33-3012 Correctional Officers and Jailers
33-3021 Detectives and Criminal Investigators
33-3031 Fish and Game Wardens
33-3041 Parking Enforcement Workers
33-3051 Police and Sheriff's Patrol Officers
33-3052 Transit and Railroad Police
33-9011 Animal Control Workers
33-9021 Private Detectives and Investigators
33-9031 Gambling Surveillance Officers and Gambling Investigators
33-9032 Security Guards
33-9091 Crossing Guards and Flaggers
33-9092 Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers
33-9093 Transportation Security Screeners
33-9098 School Bus Monitors and Protective Service Workers, All Other
35-1011 Chefs and Head Cooks
35-1012 First-Line Supervisors of Food Preparation and Serving Workers
35-2011 Cooks, Fast Food
35-2012 Cooks, Institution and Cafeteria
35-2013 Cooks, Private Household
35-2014 Cooks, Restaurant
35-2015 Cooks, Short Order
35-2019 Cooks, All Other
35-2021 Food Preparation Workers
35-3011 Bartenders
35-3023 Fast Food and Counter Workers
35-3031 Waiters and Waitresses
35-3041 Food Servers, Nonrestaurant
35-9011 Dining Room and Cafeteria Attendants and Bartender Helpers
35-9021 Dishwashers
35-9031 Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop

35-9099 Food Preparation and Serving Related Workers, All Other
37-1011 First-Line Supervisors of Housekeeping and Janitorial Workers
37-1012 First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers
37-2011 Janitors and Cleaners, Except Maids and Housekeeping Cleaners
37-2012 Maids and Housekeeping Cleaners
37-2019 Building Cleaning Workers, All Other
37-2021 Pest Control Workers
37-3011 Landscaping and Groundskeeping Workers
37-3012 Pesticide Handlers, Sprayers, and Applicators, Vegetation
37-3013 Tree Trimmers and Pruners
37-3019 Grounds Maintenance Workers, All Other
39-1013 First-Line Supervisors of Gambling Services Workers
First-Line Supervisors of Personal Service and Entertainment and Recreation Workers,
39-1098 Except Gambling Services
39-2011 Animal Trainers
39-2021 Animal Caretakers
39-3011 Gambling Dealers
39-3012 Gambling and Sports Book Writers and Runners
39-3019 Gambling Service Workers, All Other
39-3021 Motion Picture Projectionists
39-3031 Ushers, Lobby Attendants, and Ticket Takers
39-3091 Amusement and Recreation Attendants
39-3092 Costume Attendants
39-3093 Locker Room, Coatroom, and Dressing Room Attendants
39-3099 Entertainment Attendants and Related Workers, All Other
39-4011 Embalmers
39-4021 Funeral Attendants
39-4031 Morticians, Undertakers, and Funeral Arrangers
39-5011 Barbers
39-5012 Hairdressers, Hairstylists, and Cosmetologists
39-5091 Makeup Artists, Theatrical and Performance
39-5092 Manicurists and Pedicurists
39-5093 Shampooers
39-5094 Skincare Specialists
39-6011 Baggage Porters and Bellhops
39-6012 Concierges
39-7010 Tour and Travel Guides
39-9011 Childcare Workers
39-9031 Exercise Trainers and Group Fitness Instructors
39-9032 Recreation Workers
39-9041 Residential Advisors
39-9098 Crematory Operators and Personal Care and Service Workers, All Other
41-1011 First-Line Supervisors of Retail Sales Workers

41-1012 First-Line Supervisors of Non-Retail Sales Workers
41-2011 Cashiers
41-2012 Gambling Change Persons and Booth Cashiers
41-2021 Counter and Rental Clerks
41-2031 Retail Salespersons
41-9011 Demonstrators and Product Promoters
41-9012 Models
41-9021 Real Estate Brokers
41-9022 Real Estate Sales Agents
41-9091 Door-to-Door Sales Workers, News and Street Vendors, and Related Workers
41-9099 Sales and Related Workers, All Other
43-1011 First-Line Supervisors of Office and Administrative Support Workers
43-3021 Billing and Posting Clerks
43-3041 Gambling Cage Workers
43-3051 Payroll and Timekeeping Clerks
43-3061 Procurement Clerks
43-3071 Tellers
43-3099 Financial Clerks, All Other
43-4011 Brokerage Clerks
43-4021 Correspondence Clerks
43-4031 Court, Municipal, and License Clerks
43-4041 Credit Authorizers, Checkers, and Clerks
43-4061 Eligibility Interviewers, Government Programs
43-4071 File Clerks
43-4081 Hotel, Motel, and Resort Desk Clerks
43-4121 Library Assistants, Clerical
43-4131 Loan Interviewers and Clerks
43-4141 New Accounts Clerks
43-4151 Order Clerks
43-4161 Human Resources Assistants, Except Payroll and Timekeeping
43-4171 Receptionists and Information Clerks
43-4181 Reservation and Transportation Ticket Agents and Travel Clerks
43-4199 Information and Record Clerks, All Other
43-5011 Cargo and Freight Agents
43-5021 Couriers and Messengers
43-5041 Meter Readers, Utilities
43-5051 Postal Service Clerks
43-5052 Postal Service Mail Carriers
43-5053 Postal Service Mail Sorters, Processors, and Processing Machine Operators
43-5061 Production, Planning, and Expediting Clerks
43-5071 Shipping, Receiving, and Inventory Clerks
43-5111 Weighers, Measurers, Checkers, and Samplers, Recordkeeping
43-6011 Executive Secretaries and Executive Administrative Assistants

43-6012 Legal Secretaries and Administrative Assistants
43-6013 Medical Secretaries and Administrative Assistants
43-6014 Secretaries and Administrative Assistants, Except Legal, Medical, and Executive
43-9051 Mail Clerks and Mail Machine Operators, Except Postal Service
43-9061 Office Clerks, General
43-9071 Office Machine Operators, Except Computer
43-9199 Office and Administrative Support Workers, All Other
45-1011 First-Line Supervisors of Farming, Fishing, and Forestry Workers
45-2011 Agricultural Inspectors
45-2021 Animal Breeders
45-2041 Graders and Sorters, Agricultural Products
45-2091 Agricultural Equipment Operators
45-2092 Farmworkers and Laborers, Crop, Nursery, and Greenhouse
45-2093 Farmworkers, Farm, Ranch, and Aquacultural Animals
45-2099 Agricultural Workers, All Other
45-4011 Forest and Conservation Workers
45-4021 Fallers
45-4022 Logging Equipment Operators
45-4023 Log Graders and Scalers
45-4029 Logging Workers, All Other
47-1011 First-Line Supervisors of Construction Trades and Extraction Workers
47-2011 Boilermakers
47-2021 Brickmasons and Blockmasons
47-2022 Stonemasons
47-2031 Carpenters
47-2041 Carpet Installers
47-2042 Floor Layers, Except Carpet, Wood, and Hard Tiles
47-2043 Floor Sanders and Finishers
47-2044 Tile and Stone Setters
47-2051 Cement Masons and Concrete Finishers
47-2053 Terrazzo Workers and Finishers
47-2061 Construction Laborers
47-2071 Paving, Surfacing, and Tamping Equipment Operators
47-2072 Pile Driver Operators
47-2073 Operating Engineers and Other Construction Equipment Operators
47-2081 Drywall and Ceiling Tile Installers
47-2082 Tapers
47-2111 Electricians
47-2121 Glaziers
47-2131 Insulation Workers, Floor, Ceiling, and Wall
47-2132 Insulation Workers, Mechanical
47-2141 Painters, Construction and Maintenance
47-2142 Paperhangers

47-2151 Pipelayers
47-2152 Plumbers, Pipefitters, and Steamfitters
47-2161 Plasterers and Stucco Masons
47-2171 Reinforcing Iron and Rebar Workers
47-2181 Roofers
47-2211 Sheet Metal Workers
47-2221 Structural Iron and Steel Workers
47-2231 Solar Photovoltaic Installers
47-3011 Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters
47-3012 Helpers--Carpenters
47-3013 Helpers--Electricians
47-3014 Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons
47-3015 Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters
47-3016 Helpers--Roofers
47-3019 Helpers, Construction Trades, All Other
47-4011 Construction and Building Inspectors
47-4021 Elevator and Escalator Installers and Repairers
47-4031 Fence Erectors
47-4041 Hazardous Materials Removal Workers
47-4051 Highway Maintenance Workers
47-4061 Rail-Track Laying and Maintenance Equipment Operators
47-4071 Septic Tank Servicers and Sewer Pipe Cleaners
47-4090 Miscellaneous Construction and Related Workers
47-5011 Derrick Operators, Oil and Gas
47-5012 Rotary Drill Operators, Oil and Gas
47-5013 Service Unit Operators, Oil and Gas
47-5022 Excavating and Loading Machine and Dragline Operators, Surface Mining
47-5041 Continuous Mining Machine Operators
47-5043 Roof Bolters, Mining
47-5044 Loading and Moving Machine Operators, Underground Mining
47-5051 Rock Splitters, Quarry
47-5071 Roustabouts, Oil and Gas
47-5081 Helpers--Extraction Workers
47-5097 Earth Drillers, Except Oil and Gas; and Explosives Workers, Ordnance Handling Experts, and Blasters
47-5098 Underground Mining Machine Operators and Extraction Workers, All Other
49-1011 First-Line Supervisors of Mechanics, Installers, and Repairers
49-2011 Computer, Automated Teller, and Office Machine Repairers
49-2021 Radio, Cellular, and Tower Equipment Installers and Repairers
49-2022 Telecommunications Equipment Installers and Repairers, Except Line Installers
49-2091 Avionics Technicians
49-2092 Electric Motor, Power Tool, and Related Repairers
49-2093 Electrical and Electronics Installers and Repairers, Transportation Equipment

49-2094 Electrical and Electronics Repairers, Commercial and Industrial Equipment
49-2095 Electrical and Electronics Repairers, Powerhouse, Substation, and Relay
49-2096 Electronic Equipment Installers and Repairers, Motor Vehicles
49-2097 Audiovisual Equipment Installers and Repairers
49-2098 Security and Fire Alarm Systems Installers
49-3011 Aircraft Mechanics and Service Technicians
49-3021 Automotive Body and Related Repairers
49-3022 Automotive Glass Installers and Repairers
49-3023 Automotive Service Technicians and Mechanics
49-3031 Bus and Truck Mechanics and Diesel Engine Specialists
49-3041 Farm Equipment Mechanics and Service Technicians
49-3042 Mobile Heavy Equipment Mechanics, Except Engines
49-3043 Rail Car Repairers
49-3051 Motorboat Mechanics and Service Technicians
49-3052 Motorcycle Mechanics
49-3053 Outdoor Power Equipment and Other Small Engine Mechanics
49-3091 Bicycle Repairers
49-3092 Recreational Vehicle Service Technicians
49-3093 Tire Repairers and Changers
49-9011 Mechanical Door Repairers
49-9012 Control and Valve Installers and Repairers, Except Mechanical Door
49-9021 Heating, Air Conditioning, and Refrigeration Mechanics and Installers
49-9031 Home Appliance Repairers
49-9041 Industrial Machinery Mechanics
49-9043 Maintenance Workers, Machinery
49-9044 Millwrights
49-9045 Refractory Materials Repairers, Except Brickmasons
49-9051 Electrical Power-Line Installers and Repairers
49-9052 Telecommunications Line Installers and Repairers
49-9061 Camera and Photographic Equipment Repairers
49-9062 Medical Equipment Repairers
49-9063 Musical Instrument Repairers and Tuners
49-9064 Watch and Clock Repairers
49-9069 Precision Instrument and Equipment Repairers, All Other
49-9071 Maintenance and Repair Workers, General
49-9081 Wind Turbine Service Technicians
49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers
49-9092 Commercial Divers
49-9094 Locksmiths and Safe Repairers
49-9095 Manufactured Building and Mobile Home Installers
49-9096 Riggers
49-9097 Signal and Track Switch Repairers
49-9098 Helpers--Installation, Maintenance, and Repair Workers

49-9099 Installation, Maintenance, and Repair Workers, All Other
51-1011 First-Line Supervisors of Production and Operating Workers
51-2011 Aircraft Structure, Surfaces, Rigging, and Systems Assemblers
51-2021 Coil Winders, Tapers, and Finishers
Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and
51-2028 Finishers
51-2031 Engine and Other Machine Assemblers
51-2041 Structural Metal Fabricators and Fitters
51-2051 Fiberglass Laminators and Fabricators
51-2061 Timing Device Assemblers and Adjusters
51-2090 Miscellaneous Assemblers and Fabricators
51-3011 Bakers
51-3021 Butchers and Meat Cutters
51-3022 Meat, Poultry, and Fish Cutters and Trimmers
51-3023 Slaughterers and Meat Packers
51-3091 Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders
51-3092 Food Batchmakers
51-3093 Food Cooking Machine Operators and Tenders
51-3099 Food Processing Workers, All Other
51-4021 Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic
51-4022 Forging Machine Setters, Operators, and Tenders, Metal and Plastic
51-4023 Rolling Machine Setters, Operators, and Tenders, Metal and Plastic
51-4031 Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic
51-4032 Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic
Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders,
51-4033 Metal and Plastic
51-4034 Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic
51-4035 Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic
51-4041 Machinists
51-4051 Metal-Refining Furnace Operators and Tenders
51-4052 Pourers and Casters, Metal
51-4061 Model Makers, Metal and Plastic
51-4062 Patternmakers, Metal and Plastic
51-4071 Foundry Mold and Coremakers
Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and
51-4072 Plastic
51-4081 Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic
51-4111 Tool and Die Makers
51-4121 Welders, Cutters, Solderers, and Brazers
51-4122 Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders
51-4191 Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic
51-4192 Layout Workers, Metal and Plastic
51-4193 Plating Machine Setters, Operators, and Tenders, Metal and Plastic

51-4194 Tool Grinders, Filers, and Sharpeners
51-4199 Metal Workers and Plastic Workers, All Other
51-5111 Prepress Technicians and Workers
51-5112 Printing Press Operators
51-5113 Print Binding and Finishing Workers
51-6011 Laundry and Dry-Cleaning Workers
51-6021 Pressers, Textile, Garment, and Related Materials
51-6031 Sewing Machine Operators
51-6041 Shoe and Leather Workers and Repairers
51-6042 Shoe Machine Operators and Tenders
51-6051 Sewers, Hand
51-6052 Tailors, Dressmakers, and Custom Sewers
51-6061 Textile Bleaching and Dyeing Machine Operators and Tenders
51-6062 Textile Cutting Machine Setters, Operators, and Tenders
51-6063 Textile Knitting and Weaving Machine Setters, Operators, and Tenders
51-6064 Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders
51-6091 Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers
51-6092 Fabric and Apparel Patternmakers
51-6093 Upholsterers
51-6099 Textile, Apparel, and Furnishings Workers, All Other
51-7011 Cabinetmakers and Bench Carpenters
51-7021 Furniture Finishers
51-7031 Model Makers, Wood
51-7041 Sawing Machine Setters, Operators, and Tenders, Wood
51-7042 Woodworking Machine Setters, Operators, and Tenders, Except Sawing
51-7099 Woodworkers, All Other
51-8011 Nuclear Power Reactor Operators
51-8012 Power Distributors and Dispatchers
51-8013 Power Plant Operators
51-8021 Stationary Engineers and Boiler Operators
51-8031 Water and Wastewater Treatment Plant and System Operators
51-8091 Chemical Plant and System Operators
51-8092 Gas Plant Operators
51-8093 Petroleum Pump System Operators, Refinery Operators, and Gaugers
51-8099 Plant and System Operators, All Other
51-9011 Chemical Equipment Operators and Tenders
Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and
51-9012 Tenders
51-9021 Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders
51-9022 Grinding and Polishing Workers, Hand
51-9023 Mixing and Blending Machine Setters, Operators, and Tenders
51-9031 Cutters and Trimmers, Hand
51-9032 Cutting and Slicing Machine Setters, Operators, and Tenders

51-9041 Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders
51-9051 Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders
51-9061 Inspectors, Testers, Sorters, Samplers, and Weighers
51-9071 Jewelers and Precious Stone and Metal Workers
51-9081 Dental Laboratory Technicians
51-9082 Medical Appliance Technicians
51-9083 Ophthalmic Laboratory Technicians
51-9111 Packaging and Filling Machine Operators and Tenders
51-9123 Painting, Coating, and Decorating Workers
51-9124 Coating, Painting, and Spraying Machine Setters, Operators, and Tenders
51-9141 Semiconductor Processing Technicians
51-9151 Photographic Process Workers and Processing Machine Operators
51-9161 Computer Numerically Controlled Tool Operators
51-9162 Computer Numerically Controlled Tool Programmers
51-9191 Adhesive Bonding Machine Operators and Tenders
51-9192 Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders
51-9193 Cooling and Freezing Equipment Operators and Tenders
51-9194 Etchers and Engravers
51-9195 Molders, Shapers, and Casters, Except Metal and Plastic
51-9196 Paper Goods Machine Setters, Operators, and Tenders
51-9197 Tire Builders
51-9198 Helpers--Production Workers
51-9199 Production Workers, All Other
53-1041 Aircraft Cargo Handling Supervisors
First-Line Supervisors of Transportation and Material Moving Workers, Except Aircraft
53-1047 Cargo Handling Supervisors
53-2011 Airline Pilots, Copilots, and Flight Engineers
53-2012 Commercial Pilots
53-2021 Air Traffic Controllers
53-2022 Airfield Operations Specialists
53-2031 Flight Attendants
53-3011 Ambulance Drivers and Attendants, Except Emergency Medical Technicians
53-3031 Driver/Sales Workers
53-3032 Heavy and Tractor-Trailer Truck Drivers
53-3033 Light Truck Drivers
53-3052 Bus Drivers, Transit and Intercity
53-3058 Passenger Vehicle Drivers, Except Bus Drivers, Transit and Intercity
53-3099 Motor Vehicle Operators, All Other
53-4011 Locomotive Engineers
53-4013 Rail Yard Engineers, Dinkey Operators, and Hostlers
53-4022 Railroad Brake, Signal, and Switch Operators and Locomotive Firers
53-4031 Railroad Conductors and Yardmasters
53-4041 Subway and Streetcar Operators

53-4099 Rail Transportation Workers, All Other
53-5011 Sailors and Marine Oilers
53-5021 Captains, Mates, and Pilots of Water Vessels
53-5022 Motorboat Operators
53-5031 Ship Engineers
53-6011 Bridge and Lock Tenders
53-6021 Parking Attendants
53-6031 Automotive and Watercraft Service Attendants
53-6041 Traffic Technicians
53-6051 Transportation Inspectors
53-6061 Passenger Attendants
53-6098 Aircraft Service Attendants and Transportation Workers, All Other
53-7011 Conveyor Operators and Tenders
53-7021 Crane and Tower Operators
53-7031 Dredge Operators
53-7041 Hoist and Winch Operators
53-7051 Industrial Truck and Tractor Operators
53-7061 Cleaners of Vehicles and Equipment
53-7062 Laborers and Freight, Stock, and Material Movers, Hand
53-7063 Machine Feeders and Offbearers
53-7064 Packers and Packagers, Hand
53-7065 Stockers and Order Fillers
53-7071 Gas Compressor and Gas Pumping Station Operators
53-7072 Pump Operators, Except Wellhead Pumpers
53-7073 Wellhead Pumpers
53-7081 Refuse and Recyclable Material Collectors
53-7121 Tank Car, Truck, and Ship Loaders
53-7199 Material Moving Workers, All Other