BU's BEST
Biomedical Workforce Data 2019

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These data can also be found online at www.bu.edu/BEST.
This work is supported by NIH Grant DP7OD02032, BU's BEST.

Labor Insight™

About

Labor Insight™ is software offered by Burning Glass® Technologies. This tool allows educational institutions and others to analyze the job market so as to identify demand for specific jobs as well as the skills and credentials employers are seeking to fill the jobs. The data also enable analysis of regional demand and job trends. The information allows educational institutions to plan programming to meet employer needs. Moreover, trainees can use the data to identify training opportunities that will best prepare them to achieve their career goals.

As the search engine is constantly updated, the trend data (job postings/year) reported here doesn't necessarily match the exact values reported in previous years. For the sake of consistency, each search was rerun for all the years reported (2011-2019) with the identical search terms so that the values can be compared with the most recent data.

Workflow

1. Craft a search based on various criteria: industry, job type, required credentials, skill demand, experience, location, etc.

2. View reports: top employers, top job titles, top job skills, education/credentials, job demand maps, job trends, etc.

Notes

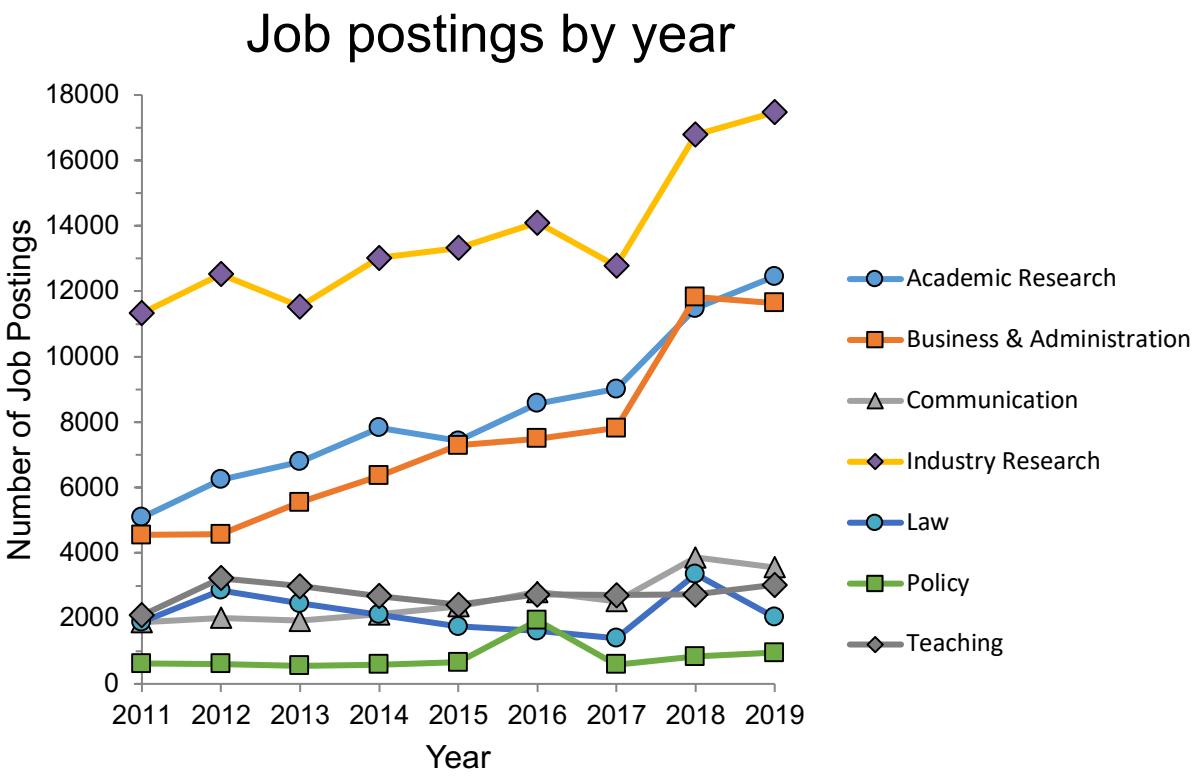
All searches were performed such that the reported jobs require, prefer or suggest that the applicant earned a PhD.

Caveats & Disclaimers

Date ranges are January 2019 – December 2019 for job searches.

As the data are generated through job advertisements, small and midsized companies hiring small numbers of employees might not be listed in "top employers" but should not be ruled out.

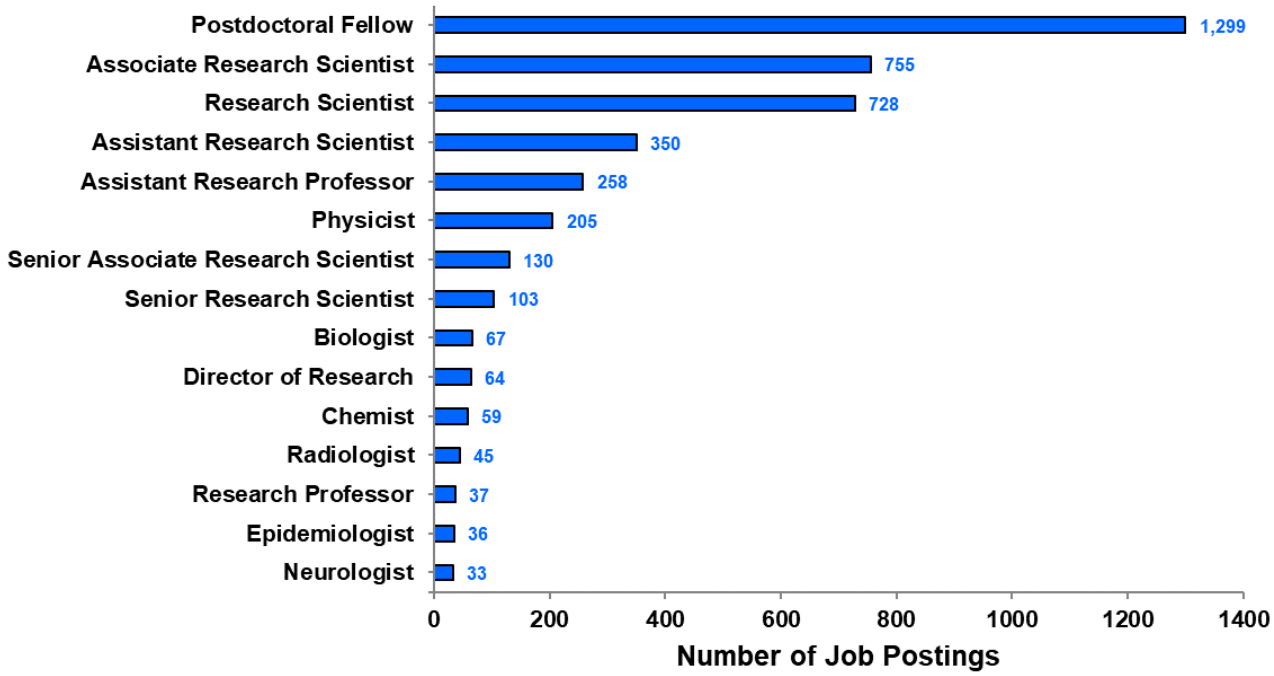
Career Paths:
Job Trends Summary



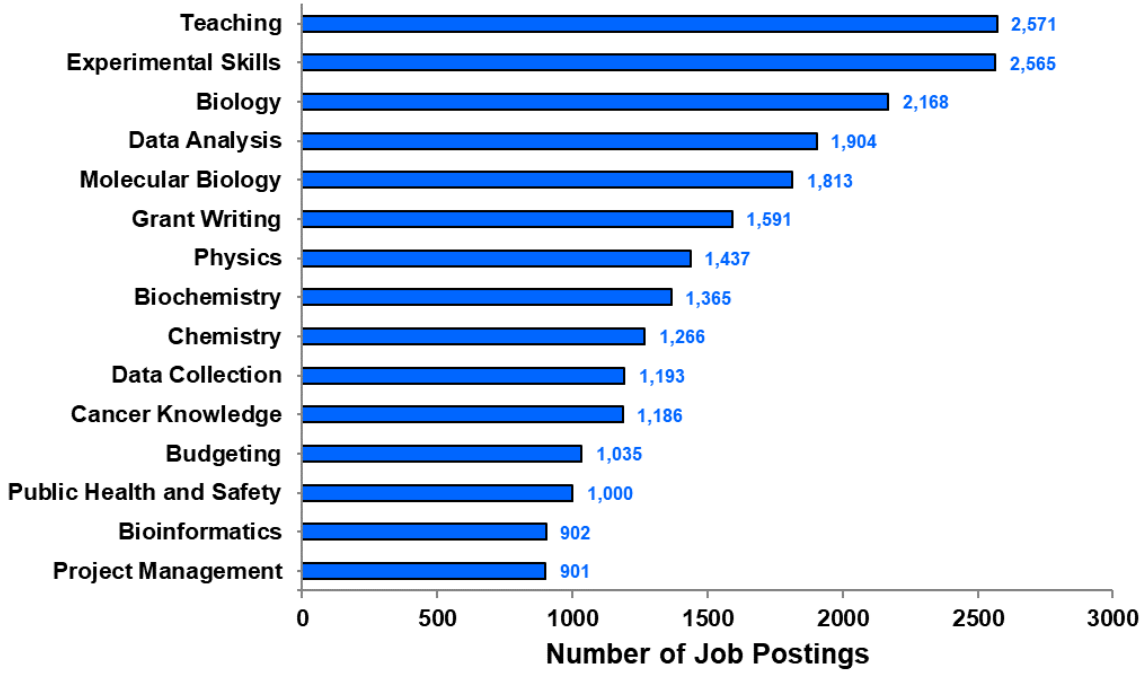
Academic Research

Number of job postings (nationwide): 12,455

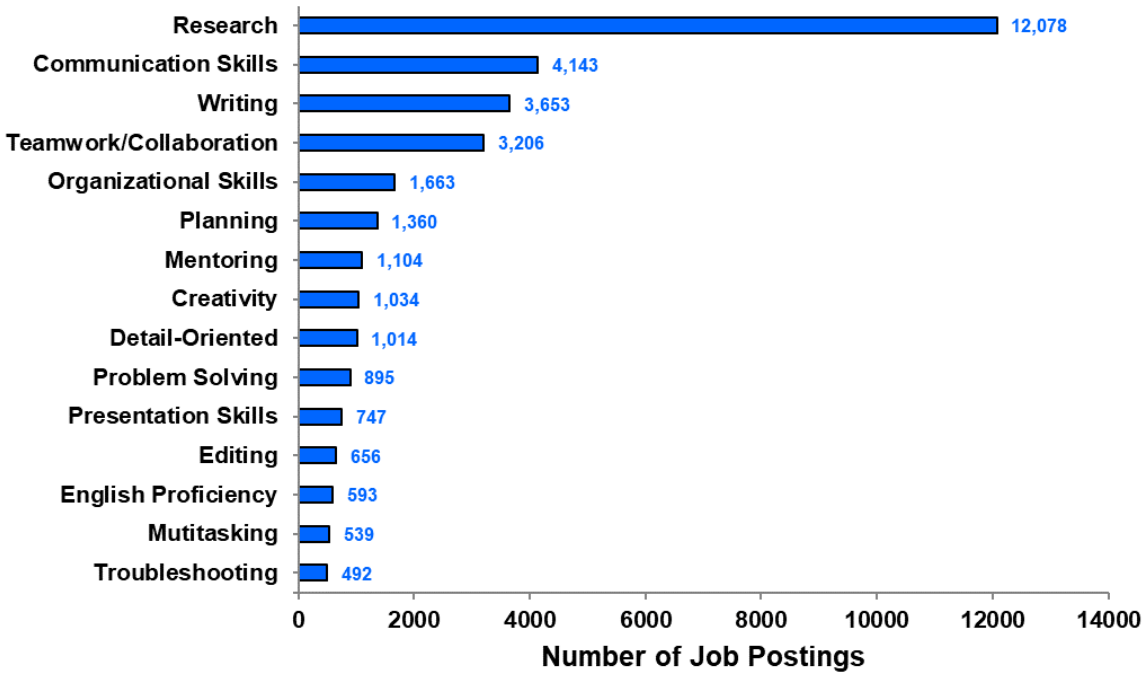
Top Job Titles: Academic Research 2019



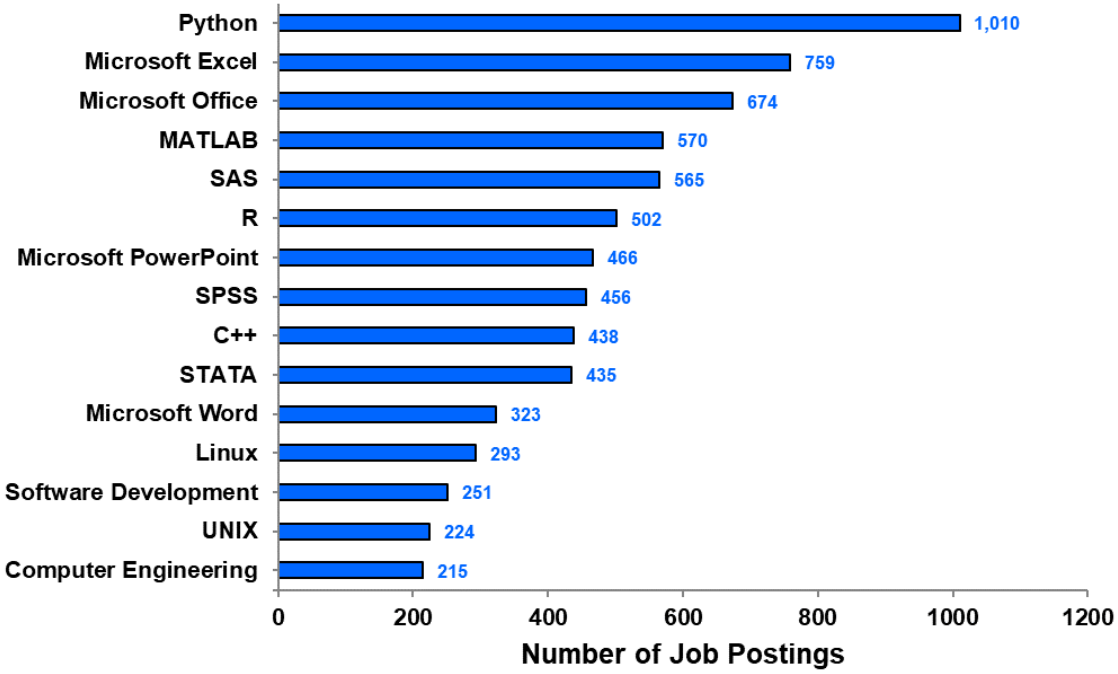
Specialized (Hard) Skills: Academic Research 2019



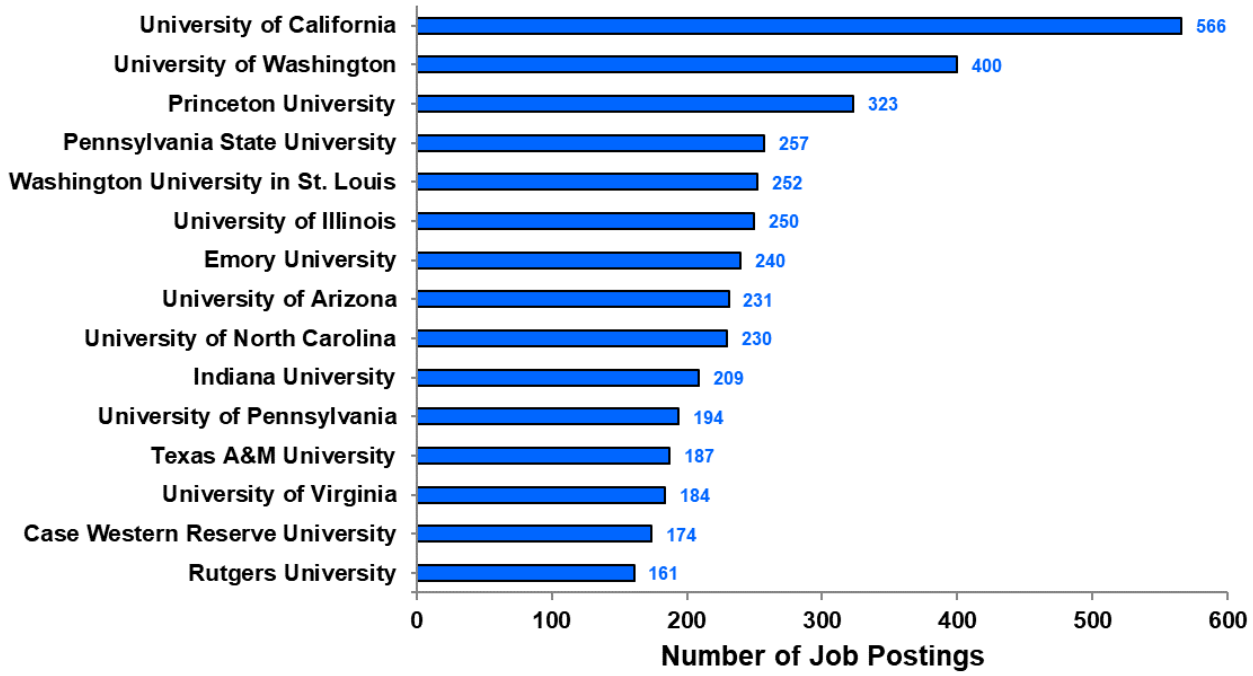
Baseline (Soft) Skills: Academic Research 2019



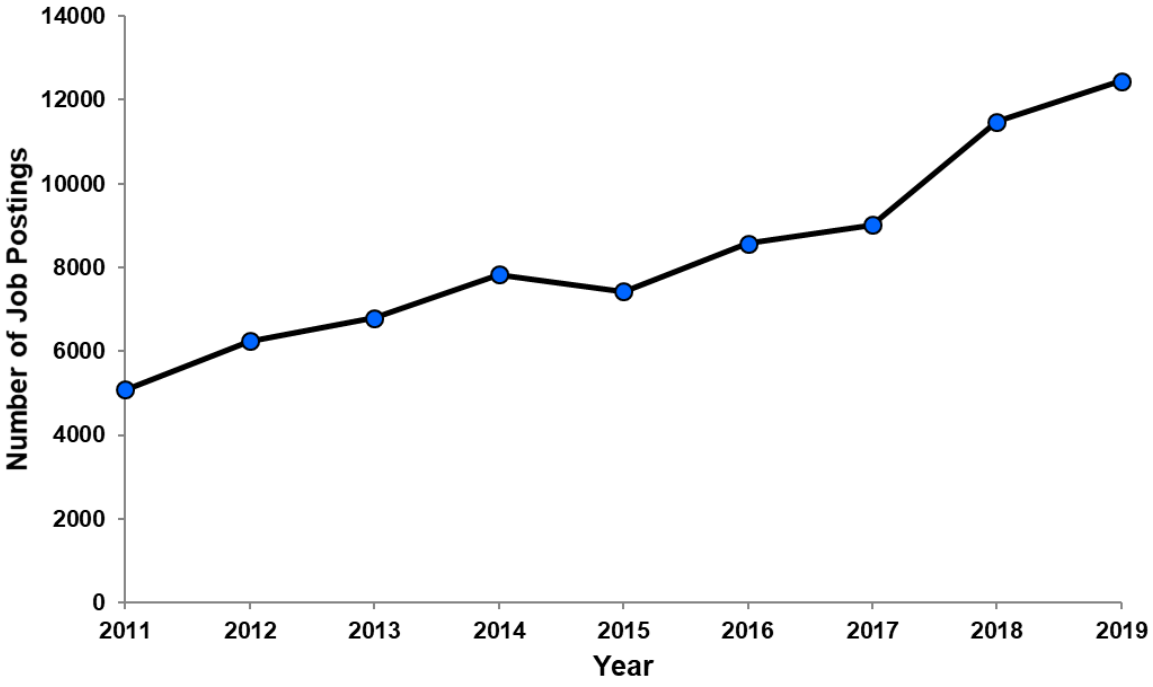
Computer Skills: Academic Research 2019



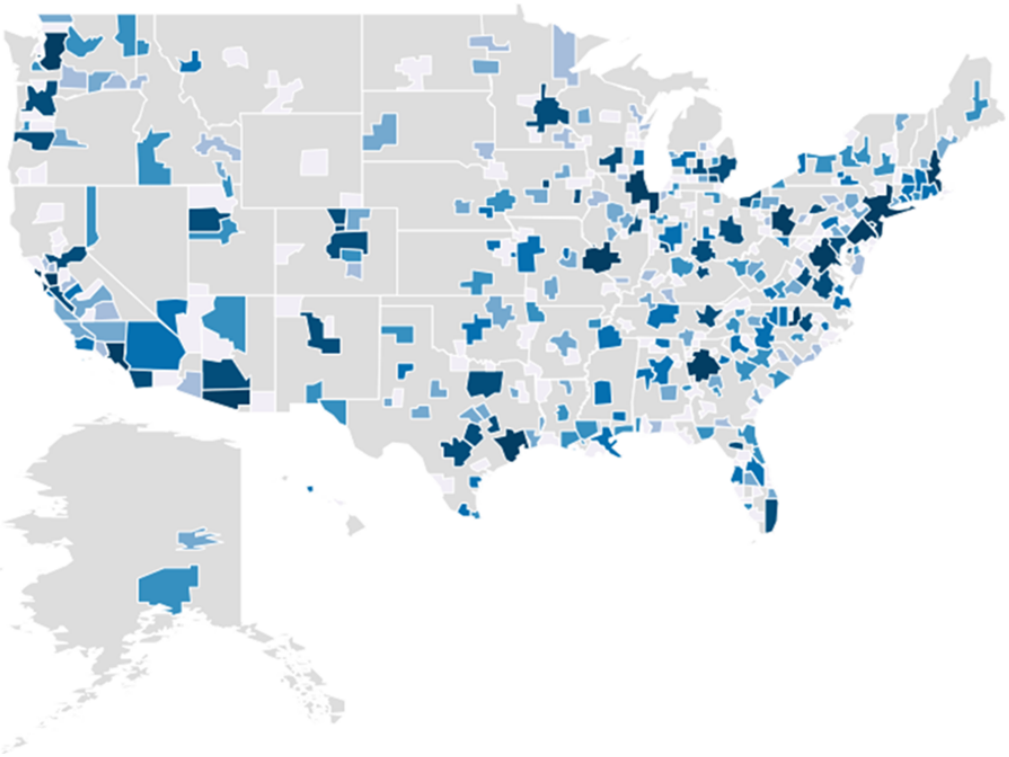
Top Employers: Academic Research 2019



Job Postings by Year: Academic Research 2019



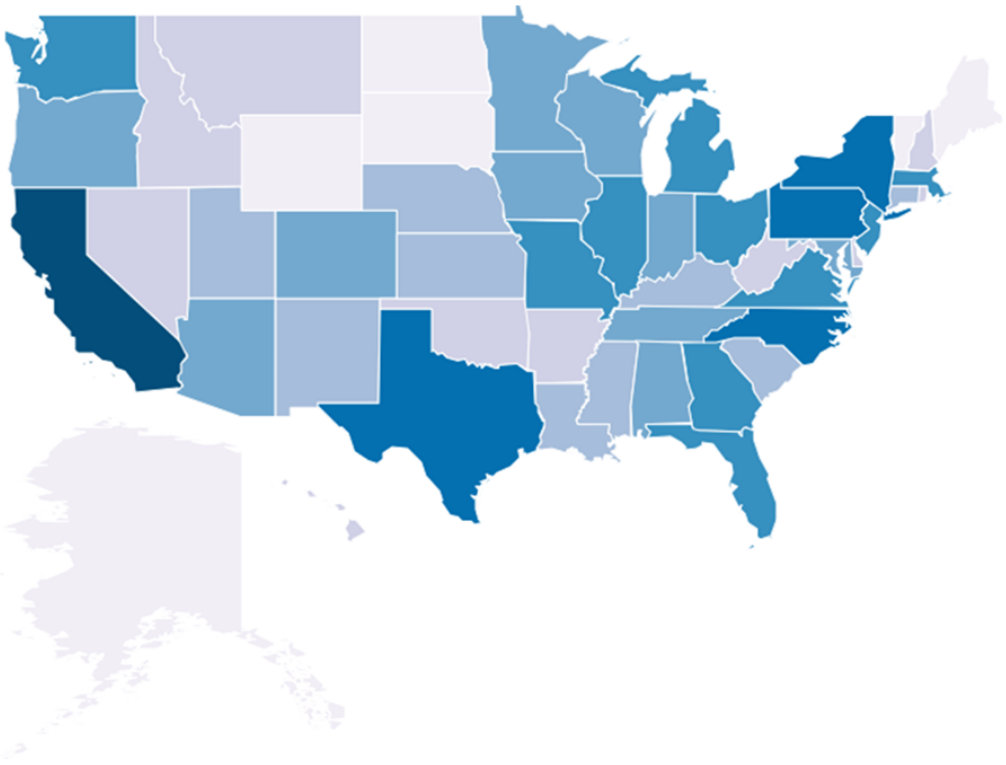
High Demand Areas by MSA: Academic Research 2019



TOP 15 HIRING REGIONS

Metro Area	Job Postings
New York-Newark-Jersey City, NY-NJ-PA (Metropolitan Statistical Area)	677
Los Angeles-Long Beach-Anaheim, CA (Metropolitan Statistical Area)	676
San Francisco-Oakland-Hayward, CA (Metropolitan Statistical Area)	468
Chicago-Naperville-Elgin, IL-IN-WI (Metropolitan Statistical Area)	431
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD (Metropolitan Statistical Area)	377
Seattle-Tacoma-Bellevue, WA (Metropolitan Statistical Area)	369
Boston-Cambridge-Nashua, MA-NH (Metropolitan NECTA)	356
Durham-Chapel Hill, NC (Metropolitan Statistical Area)	319
Trenton, NJ (Metropolitan Statistical Area)	317
Atlanta-Sandy Springs-Roswell, GA (Metropolitan Statistical Area)	316
St. Louis, MO-IL (Metropolitan Statistical Area)	278
Washington-Arlington-Alexandria, DC-VA-MD-WV (Metropolitan Statistical Area)	237
Tucson, AZ (Metropolitan Statistical Area)	199
Houston-The Woodlands-Sugar Land, TX (Metropolitan Statistical Area)	198
Pittsburgh, PA (Metropolitan Statistical Area)	194

High Demand Areas by State: Academic Research 2019



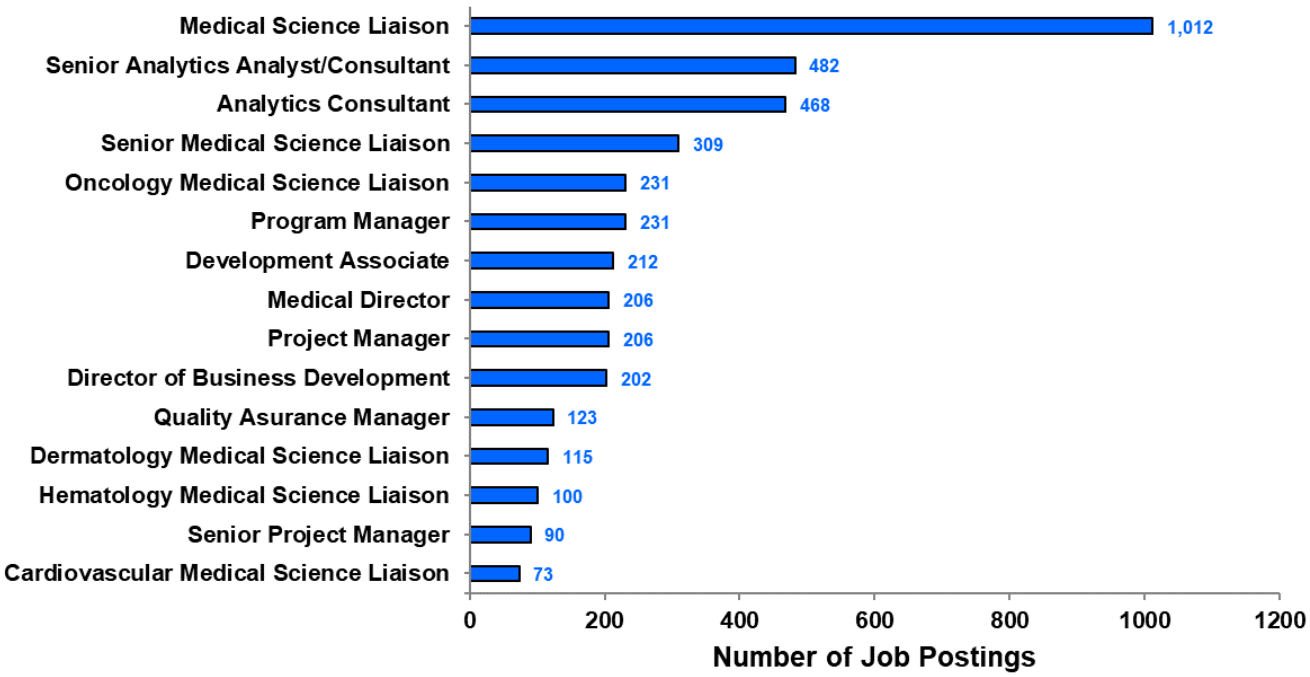
TOP 15 HIRING REGIONS

State	Job Postings
California	1,777
Pennsylvania	827
Texas	791
New York	633
North Carolina	577
New Jersey	536
Illinois	534
Georgia	460
Massachusetts	458
Ohio	458
Washington	419
Florida	383
Michigan	375
Virginia	366
Missouri	335

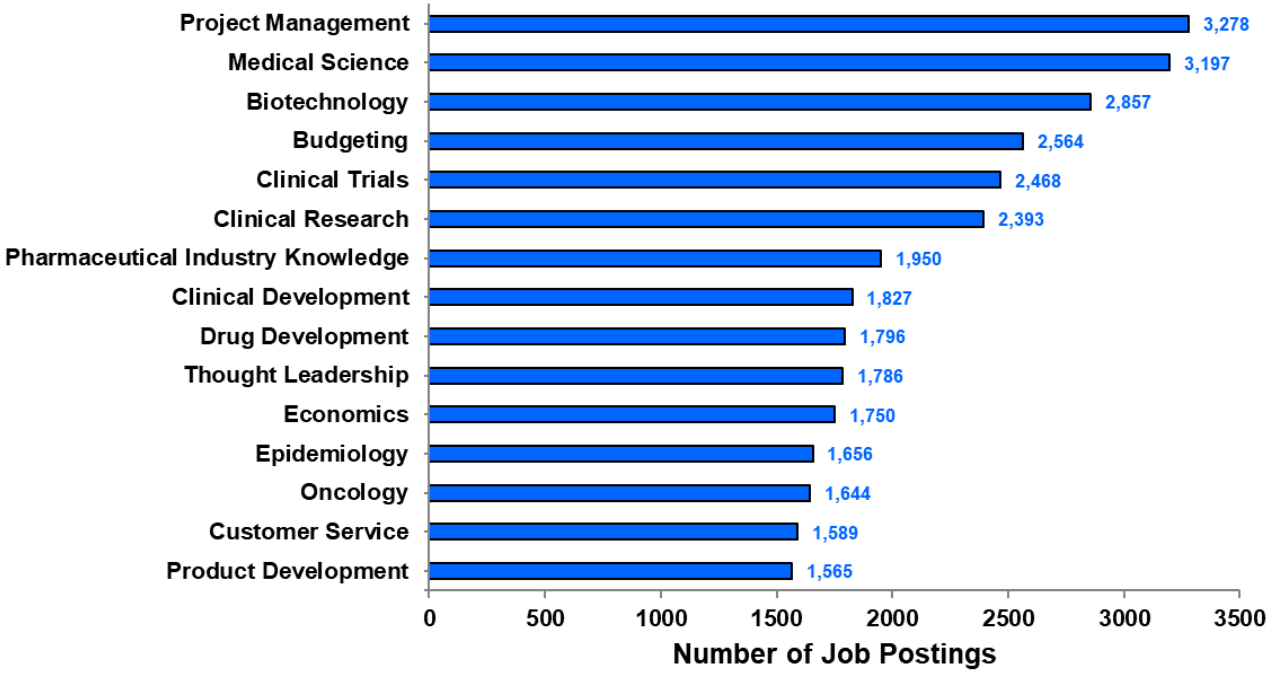
Business & Administration

Number of job postings (nationwide): 11,642

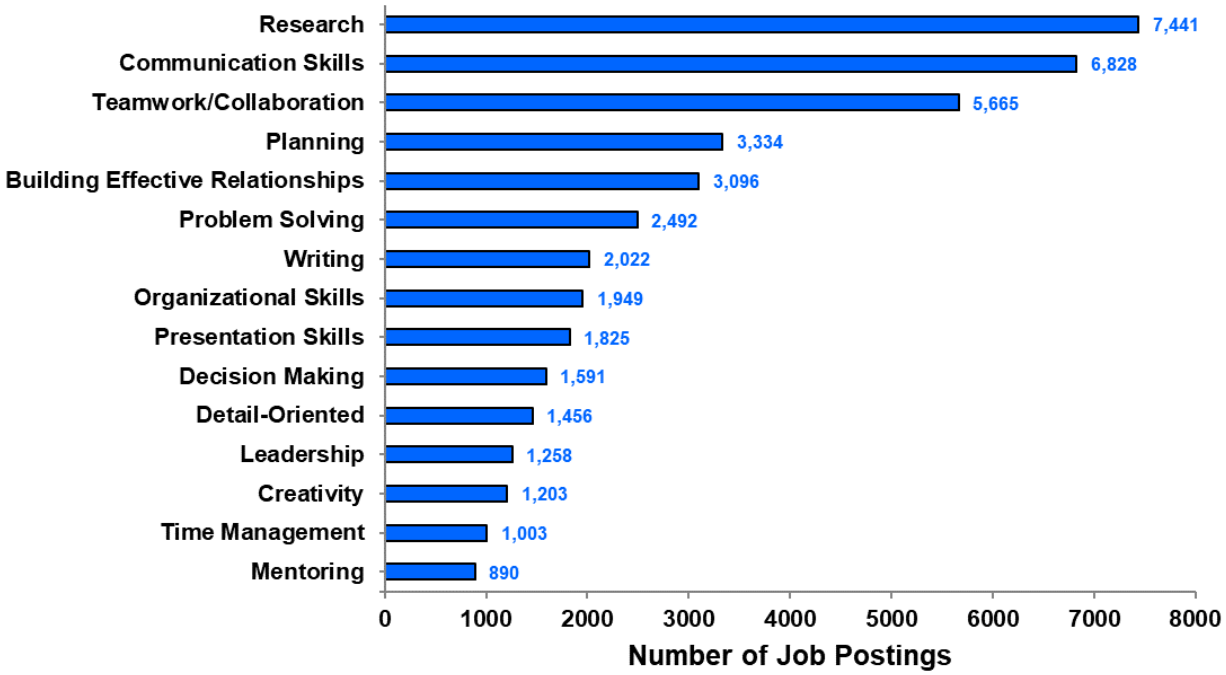
Top Job Titles: Business & Administration 2019



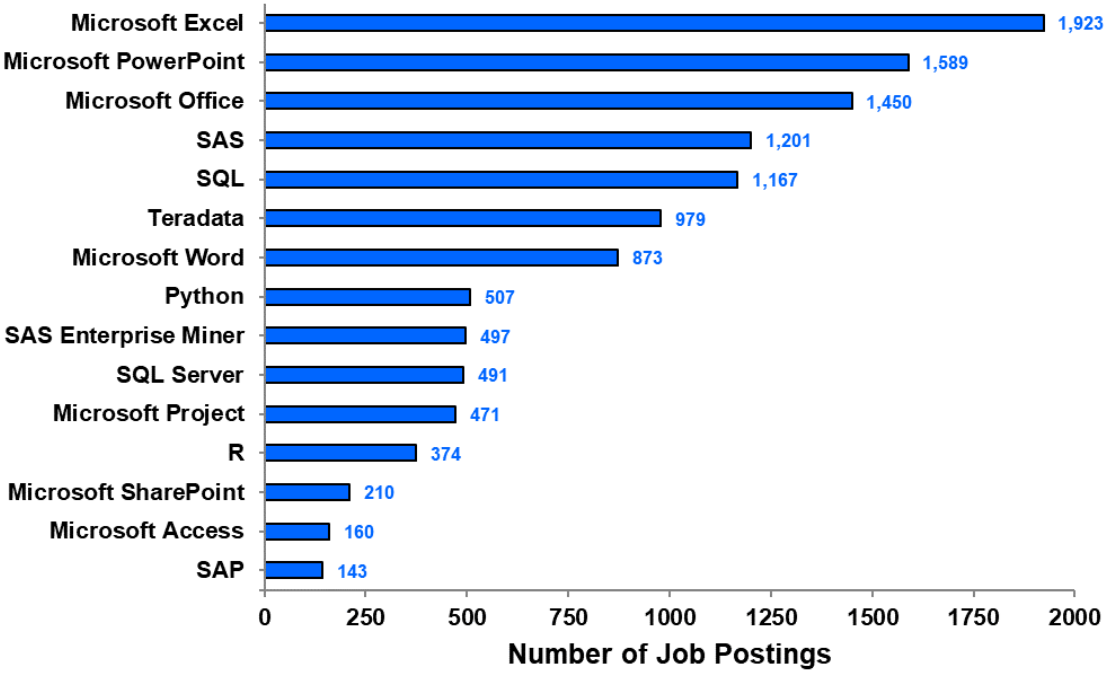
Specialized (Hard) Skills: Business & Administration 2019



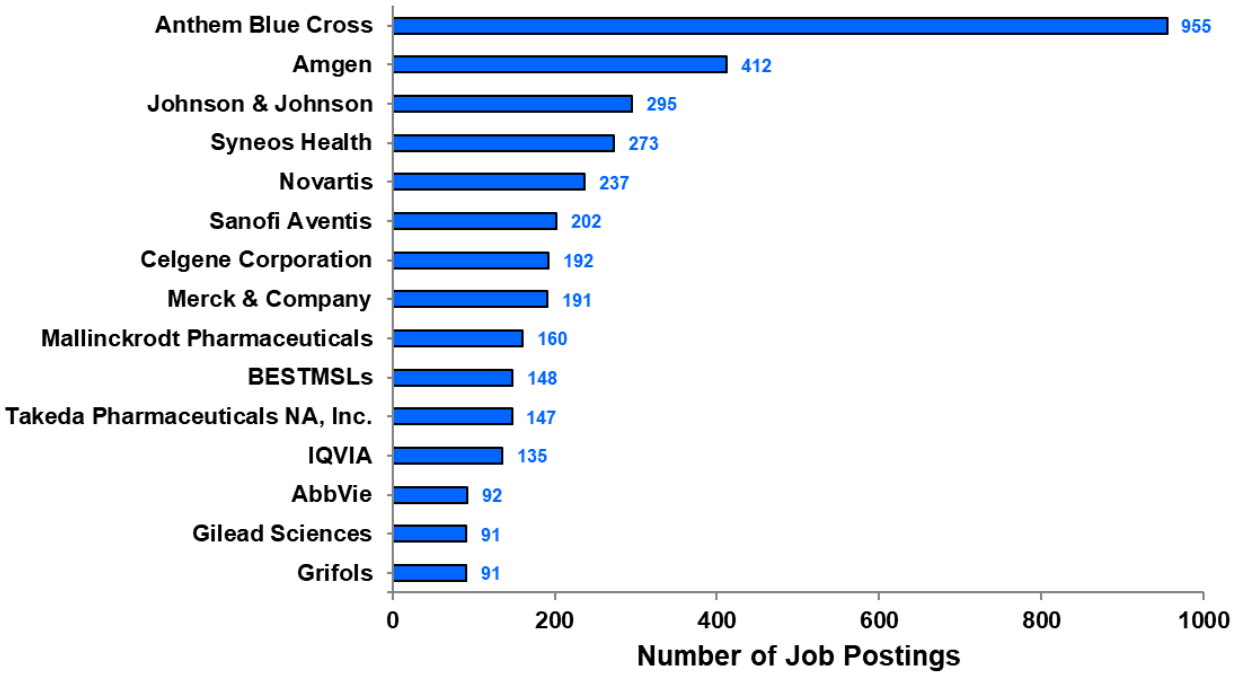
Baseline (Soft) Skills: Business & Administration 2019



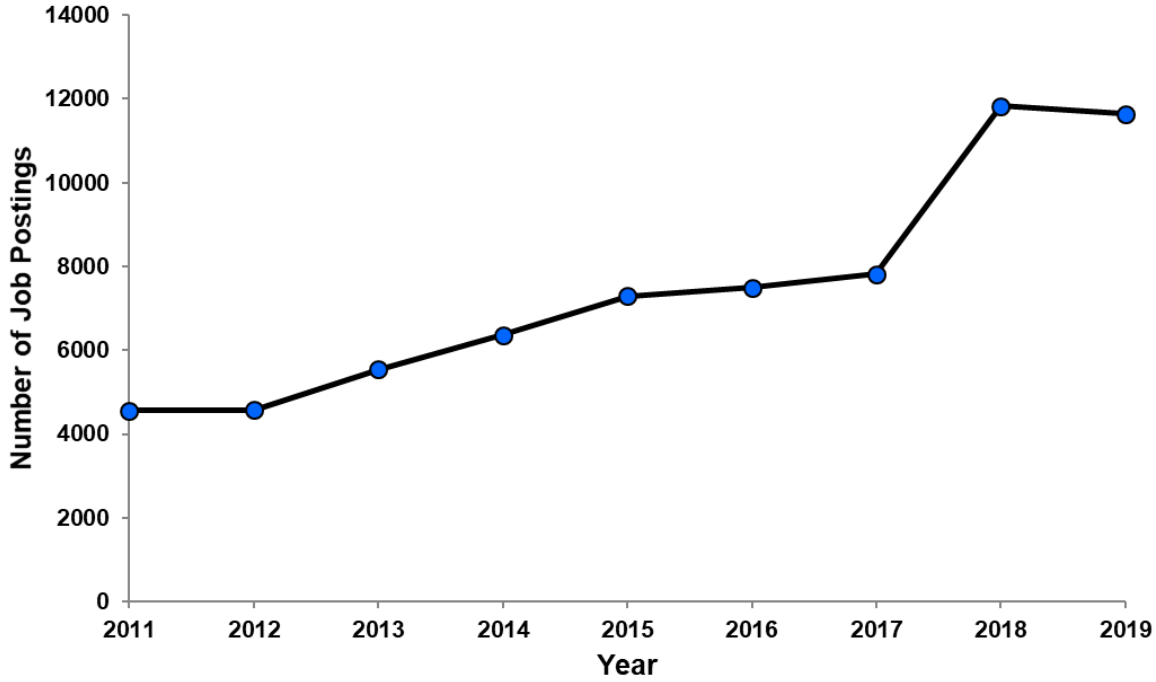
Computer Skills: Business & Administration 2019



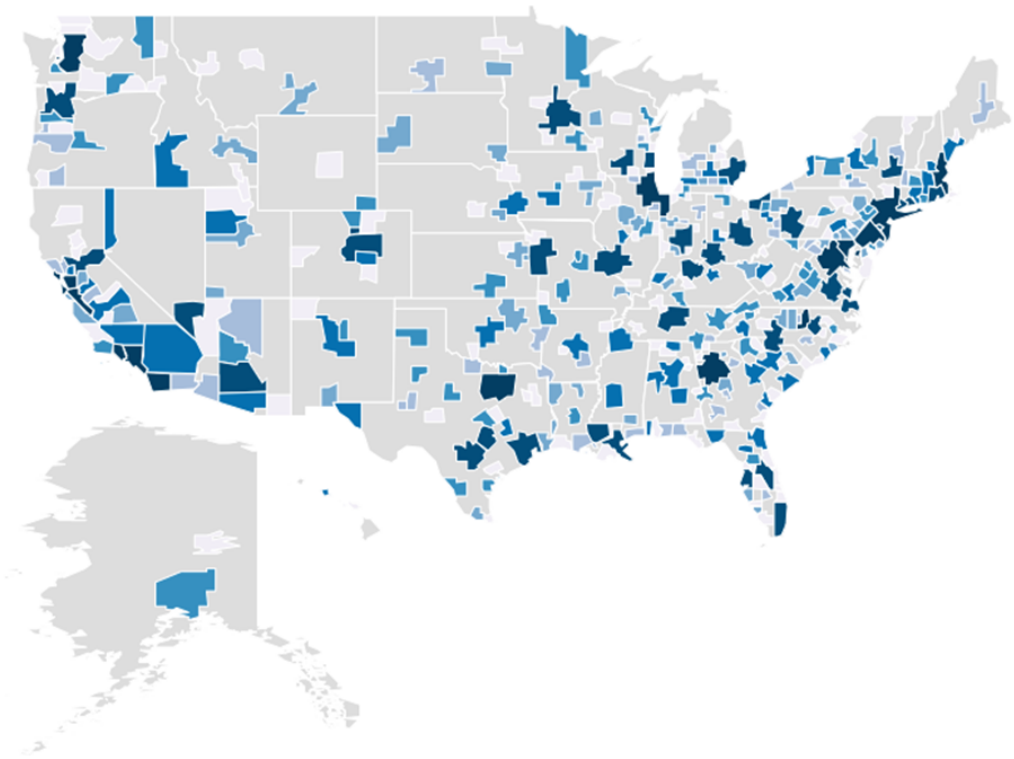
Top Employers: Business & Administration 2019



Job Postings by Year: Business & Administration 2019



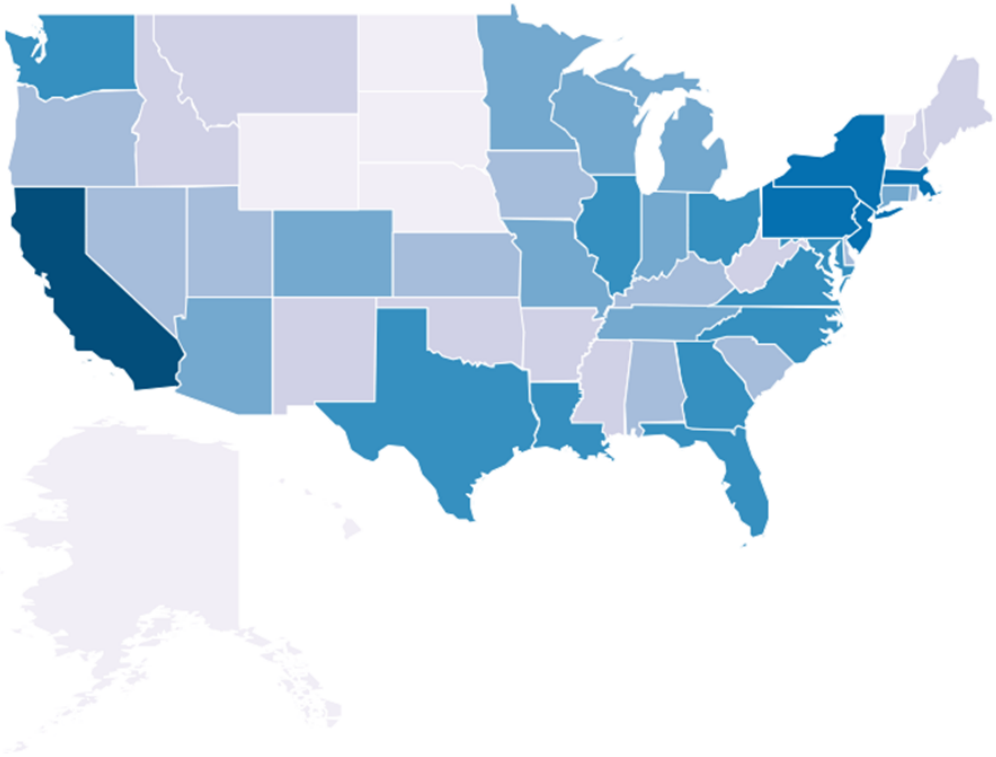
High Demand Areas by MSA: Business & Administration 2019



TOP 15 HIRING REGIONS

Metro Area	Job Postings
Boston-Cambridge-Nashua, MA-NH (Metropolitan NECTA)	1,167
San Francisco-Oakland-Hayward, CA (Metropolitan Statistical Area)	1,099
New York-Newark-Jersey City, NY-NJ-PA (Metropolitan Statistical Area)	1,067
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD (Metropolitan Statistical Area)	552
Los Angeles-Long Beach-Anaheim, CA (Metropolitan Statistical Area)	486
Washington-Arlington-Alexandria, DC-VA-MD-WV (Metropolitan Statistical Area)	475
San Diego-Carlsbad, CA (Metropolitan Statistical Area)	451
Chicago-Naperville-Elgin, IL-IN-WI (Metropolitan Statistical Area)	404
Seattle-Tacoma-Bellevue, WA (Metropolitan Statistical Area)	340
Oxnard-Thousand Oaks-Ventura, CA (Metropolitan Statistical Area)	271
Dallas-Fort Worth-Arlington, TX (Metropolitan Statistical Area)	203
Atlanta-Sandy Springs-Roswell, GA (Metropolitan Statistical Area)	194
Durham-Chapel Hill, NC (Metropolitan Statistical Area)	179
San Jose-Sunnyvale-Santa Clara, CA (Metropolitan Statistical Area)	157
Baltimore-Columbia-Towson, MD (Metropolitan Statistical Area)	145

High Demand Areas by State: Business & Administration 2019



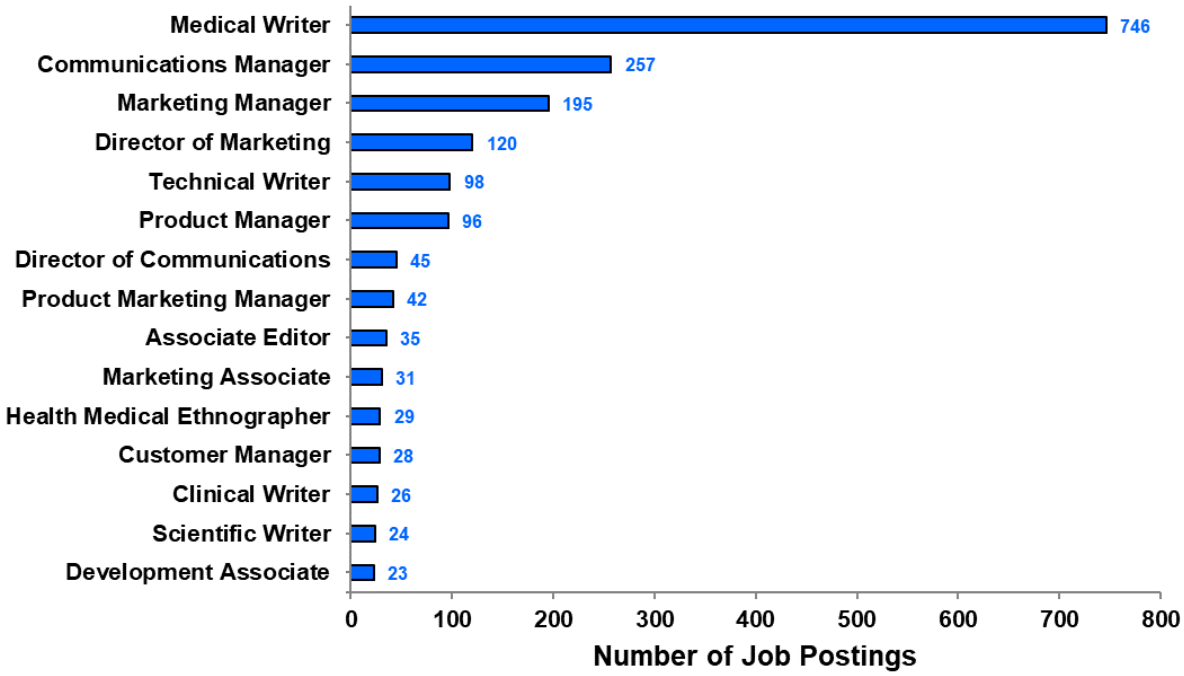
TOP 15 HIRING REGIONS

State	Job Postings
California	2,637
Massachusetts	1,225
New York	718
Pennsylvania	629
New Jersey	597
Texas	520
North Carolina	446
Illinois	432
Washington	367
Maryland	363
Florida	332
Virginia	276
Ohio	262
Georgia	240
Louisiana	217

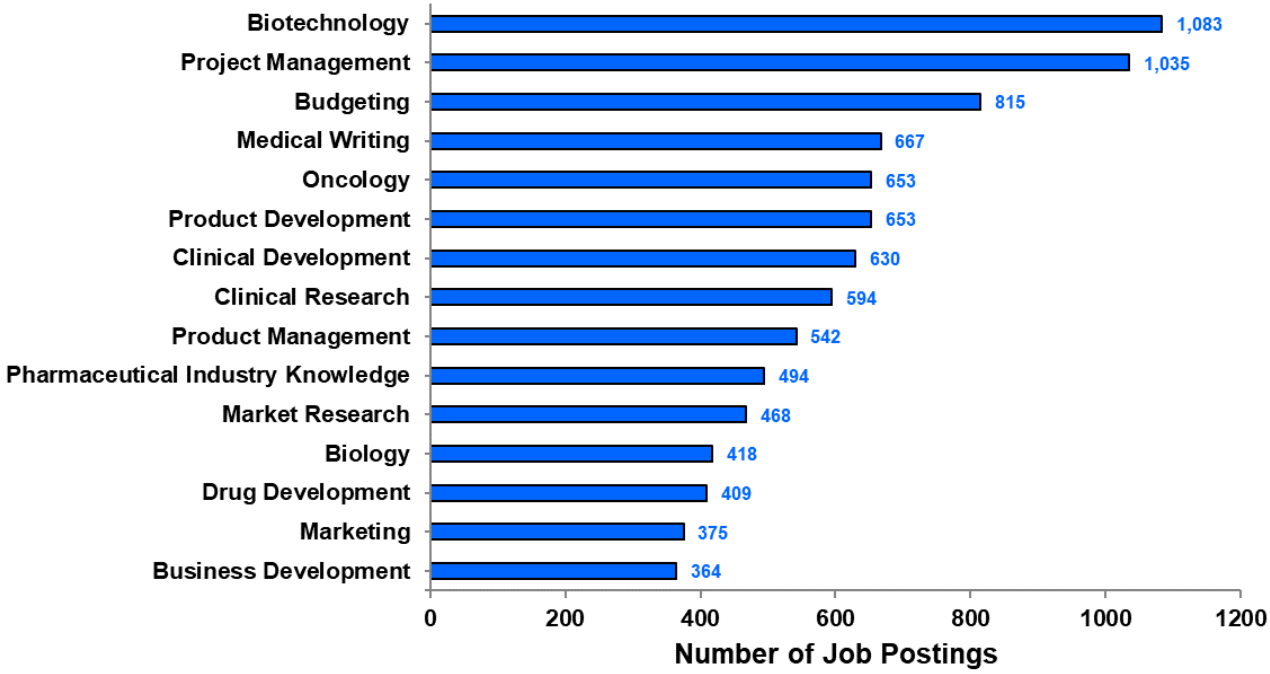
Communication

Number of job postings (nationwide): 3,564

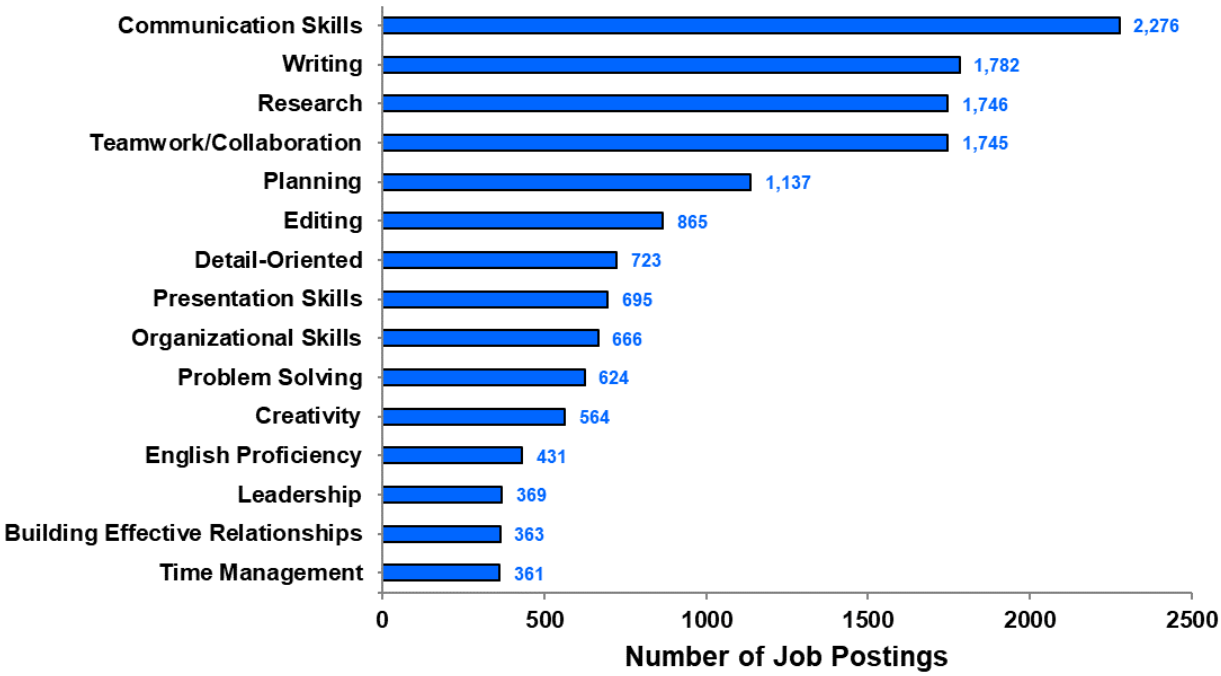
Top Job Titles: Communication 2019



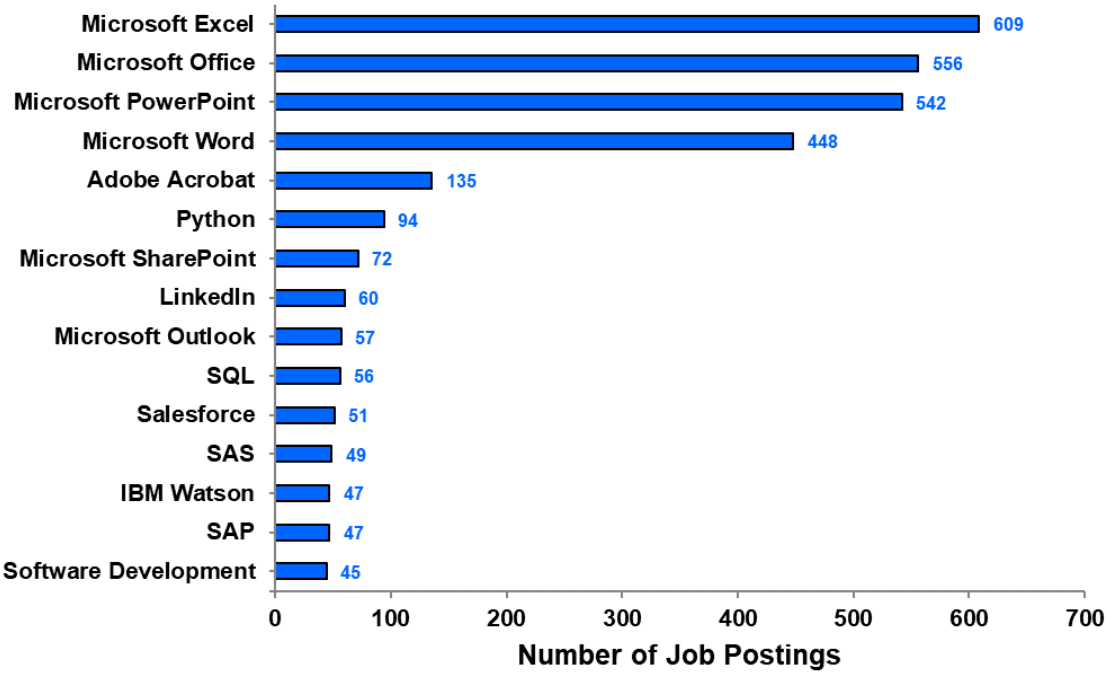
Specialized (Hard) Skills: Communication 2019



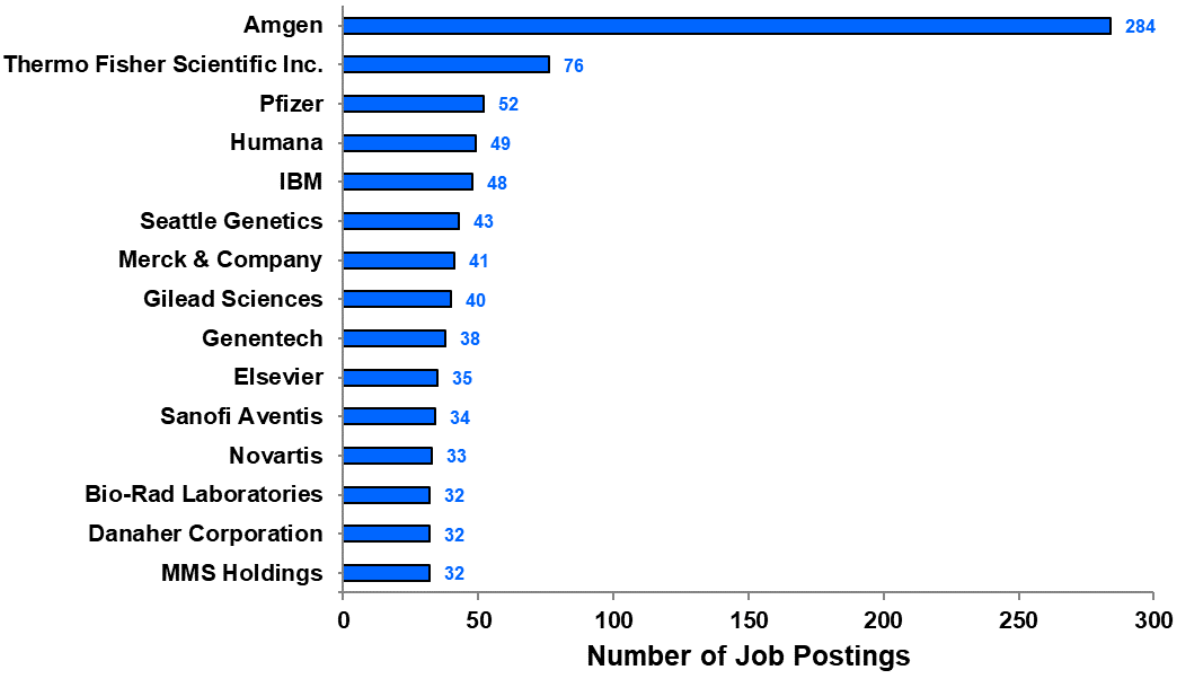
Baseline (Soft) Skills: Communication 2019



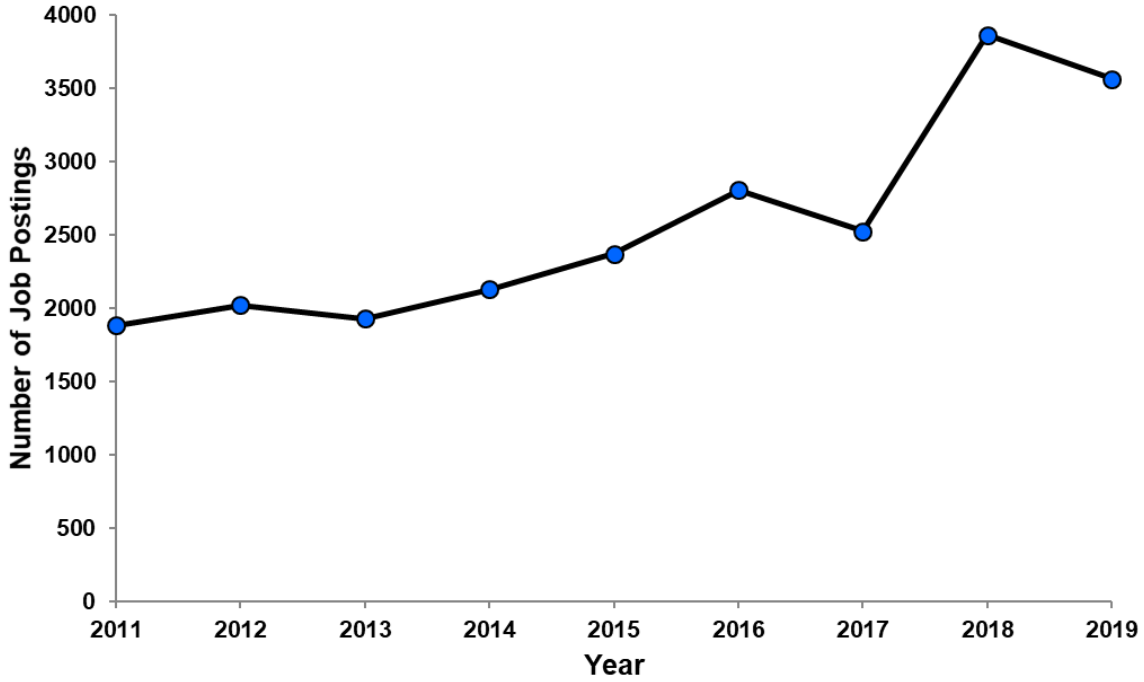
Computer Skills: Communication 2019



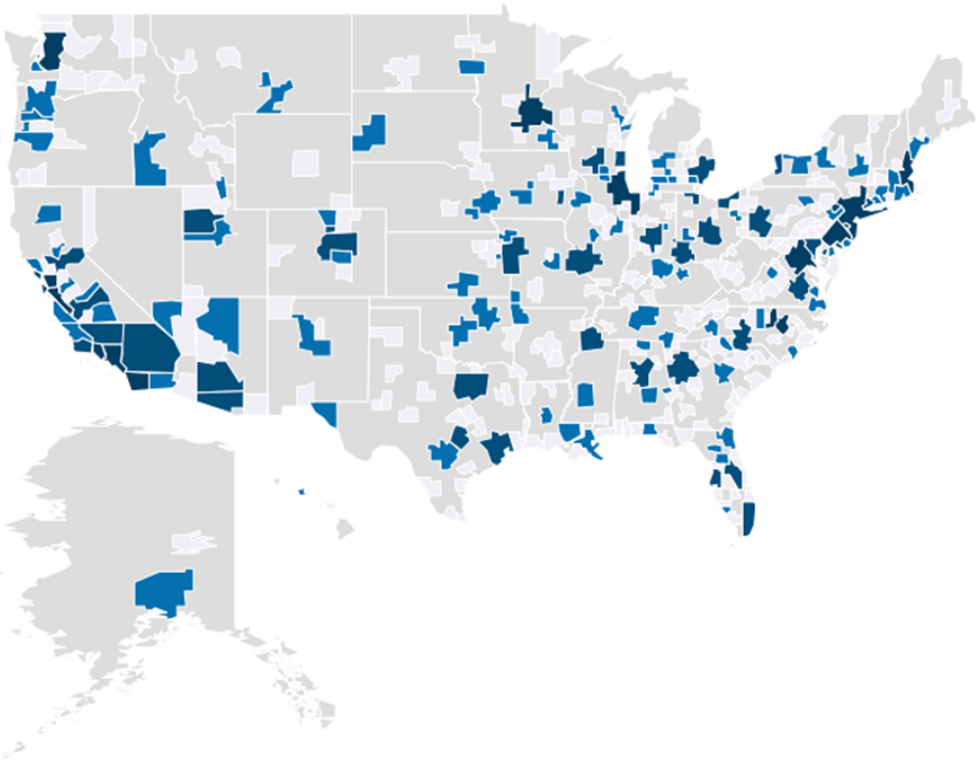
Top Employers: Communication 2019



Job Postings by Year: Communication 2019



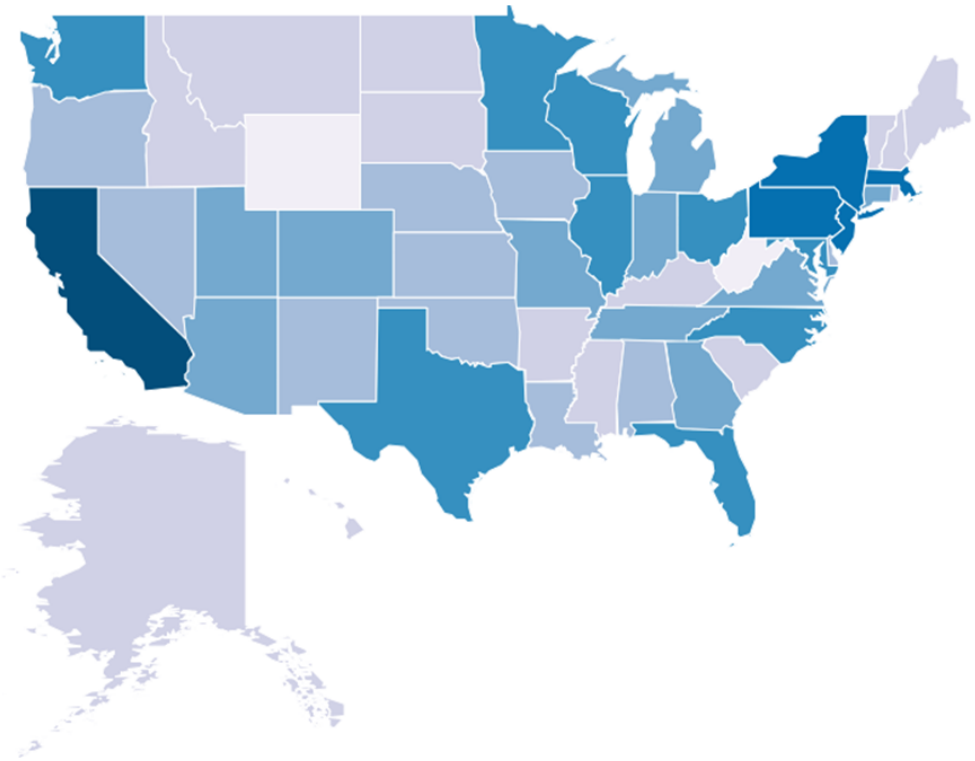
High Demand Areas by MSA: Communication 2019



TOP 15 HIRING REGIONS

Metro Area	Job Postings
New York-Newark-Jersey City, NY-NJ-PA (Metropolitan Statistical Area)	465
San Francisco-Oakland-Hayward, CA (Metropolitan Statistical Area)	437
Boston-Cambridge-Nashua, MA-NH (Metropolitan NECTA)	425
Oxnard-Thousand Oaks-Ventura, CA (Metropolitan Statistical Area)	237
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD (Metropolitan Statistical Area)	227
San Diego-Carlsbad, CA (Metropolitan Statistical Area)	188
Los Angeles-Long Beach-Anaheim, CA (Metropolitan Statistical Area)	156
Washington-Arlington-Alexandria, DC-VA-MD-WV (Metropolitan Statistical Area)	129
San Jose-Sunnyvale-Santa Clara, CA (Metropolitan Statistical Area)	116
Seattle-Tacoma-Bellevue, WA (Metropolitan Statistical Area)	85
Trenton, NJ (Metropolitan Statistical Area)	85
Chicago-Naperville-Elgin, IL-IN-WI (Metropolitan Statistical Area)	82
Durham-Chapel Hill, NC (Metropolitan Statistical Area)	78
Minneapolis-St. Paul-Bloomington, MN-WI (Metropolitan Statistical Area)	49
Raleigh, NC (Metropolitan Statistical Area)	31

High Demand Areas by State: Communication 2019



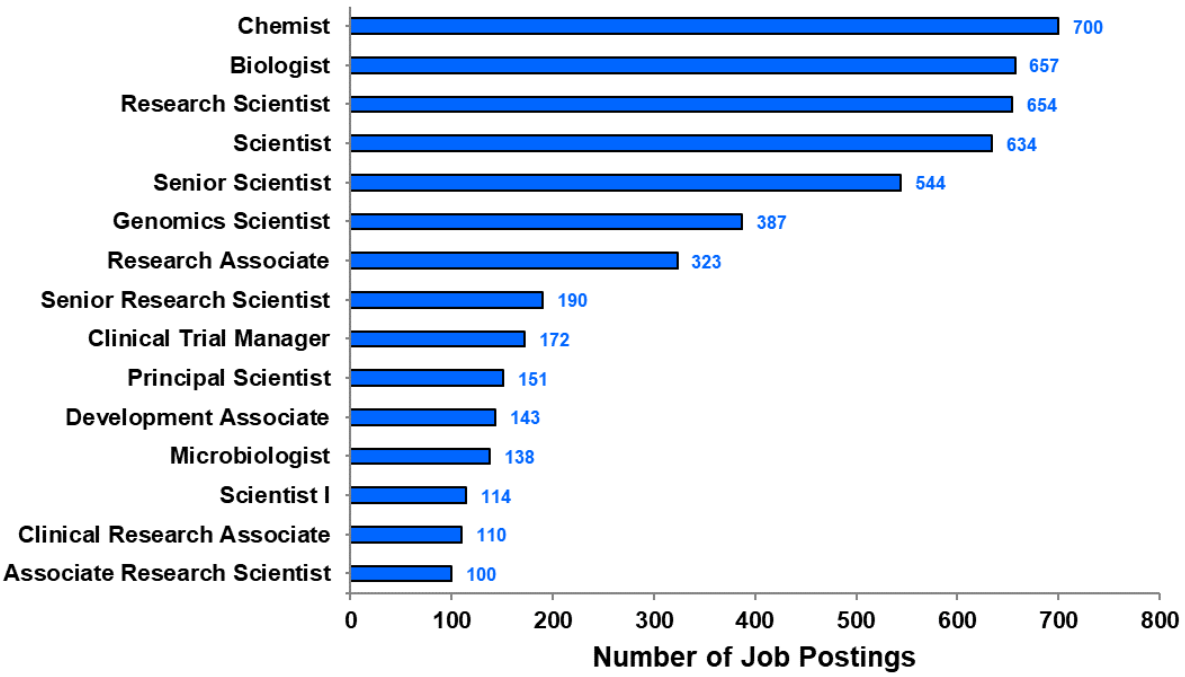
TOP 15 HIRING REGIONS

State	Job Postings
California	1,228
Massachusetts	437
New Jersey	364
Pennsylvania	236
New York	221
North Carolina	128
Maryland	114
Illinois	90
Washington	89
Ohio	71
Texas	68
Minnesota	54
Florida	48
Wisconsin	30
District of Columbia	29

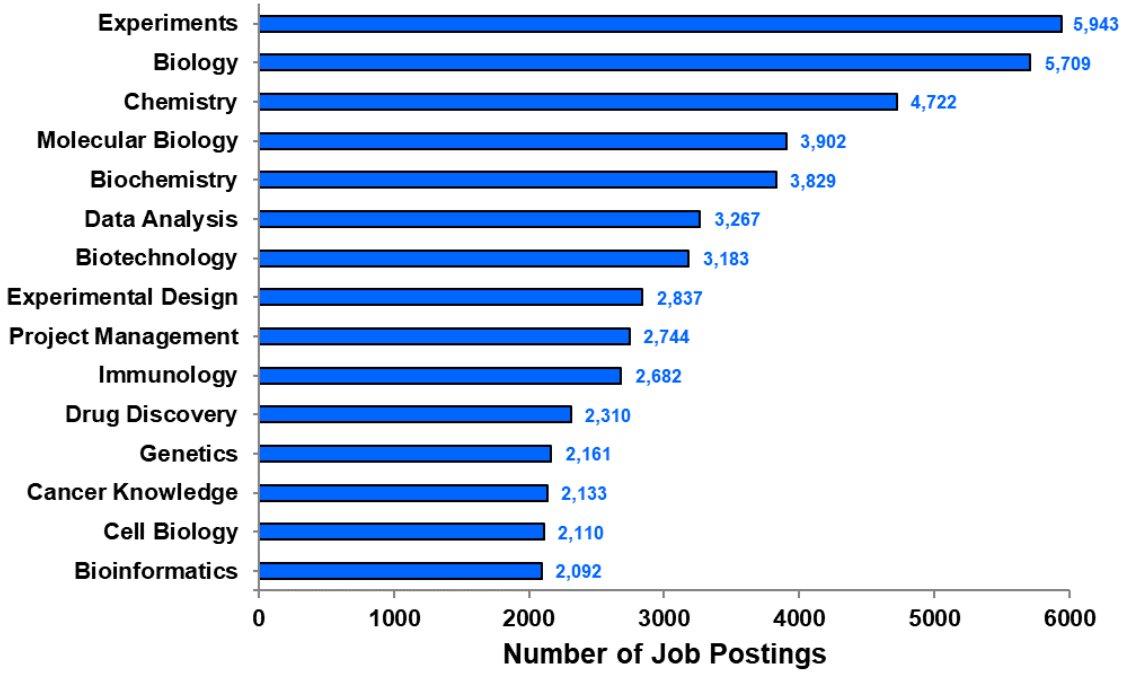
Industry Research

Number of job postings (nationwide): 17,473

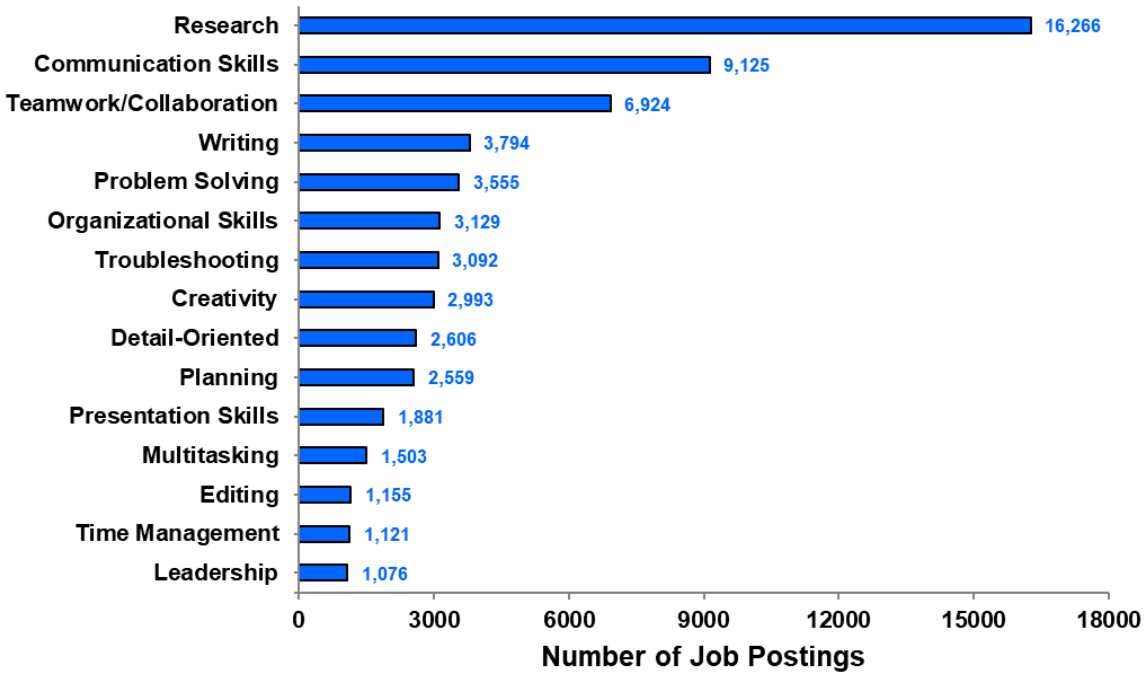
Top Job Titles: Industry Research 2019



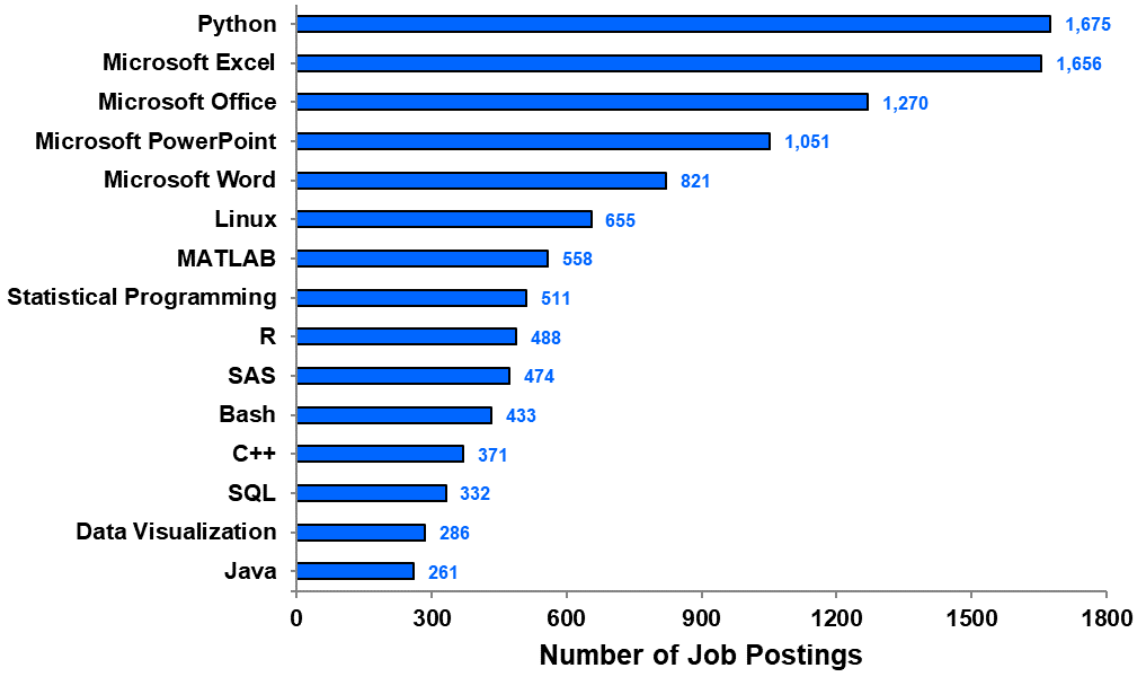
Specialized (Hard) Skills: Industry Research 2019



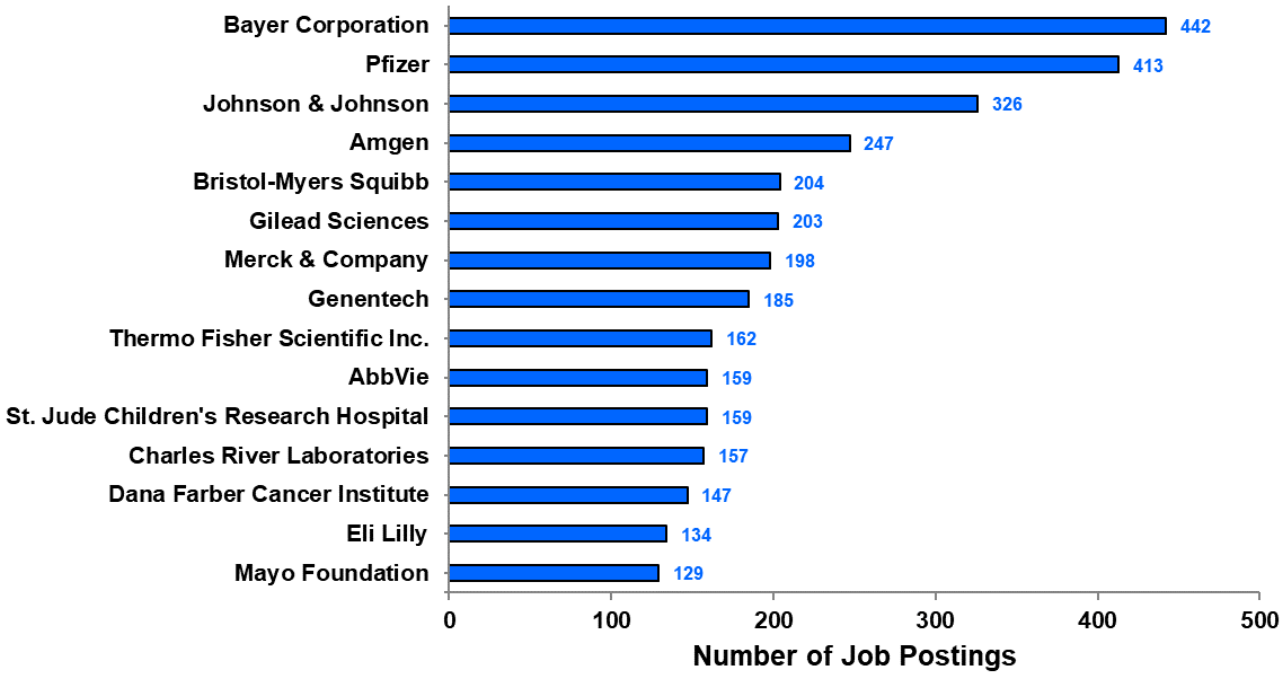
Baseline (Soft) Skills: Industry Research 2019



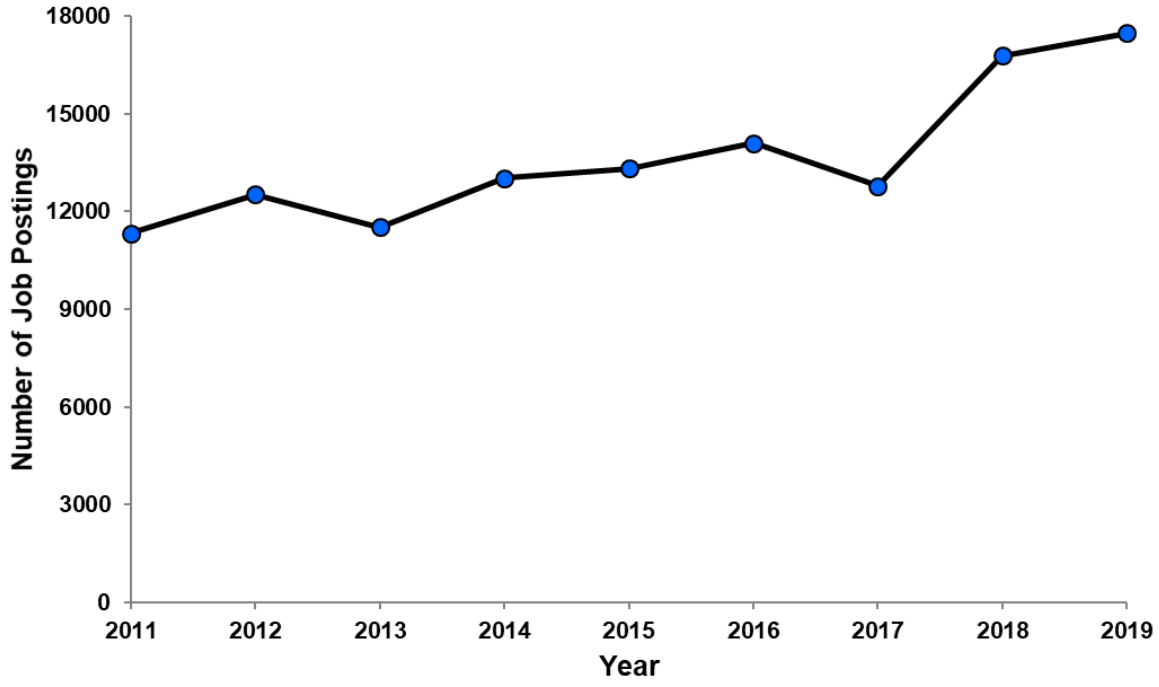
Computer Skills: Industry Research 2019



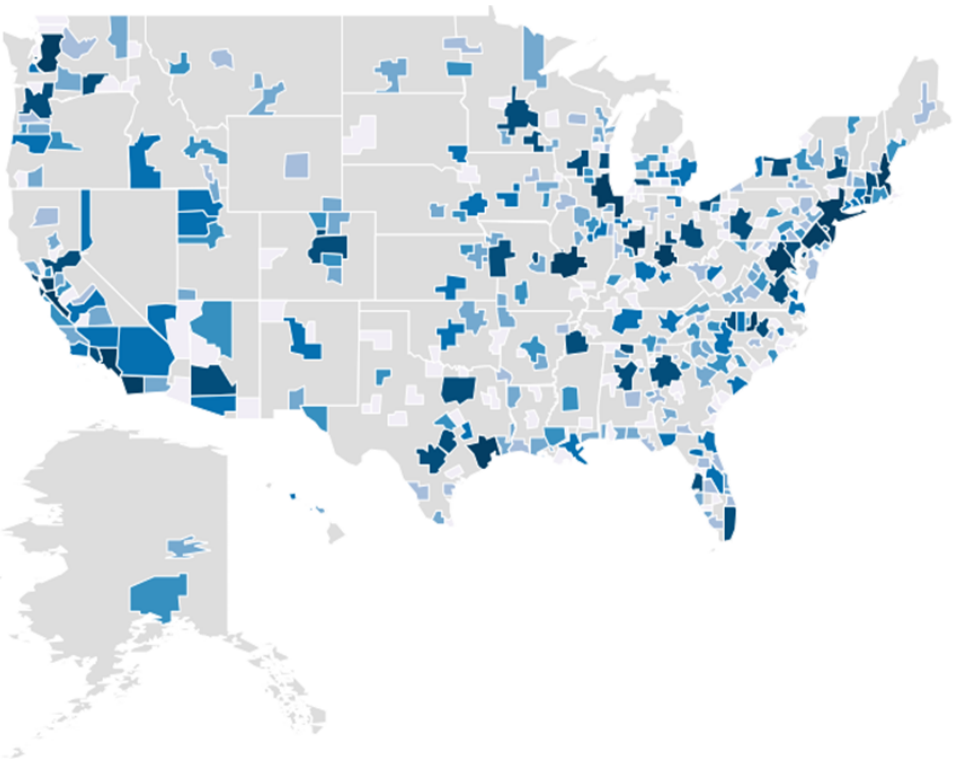
Top Employers: Industry Research 2019



Job Postings by Year: Industry Research 2019



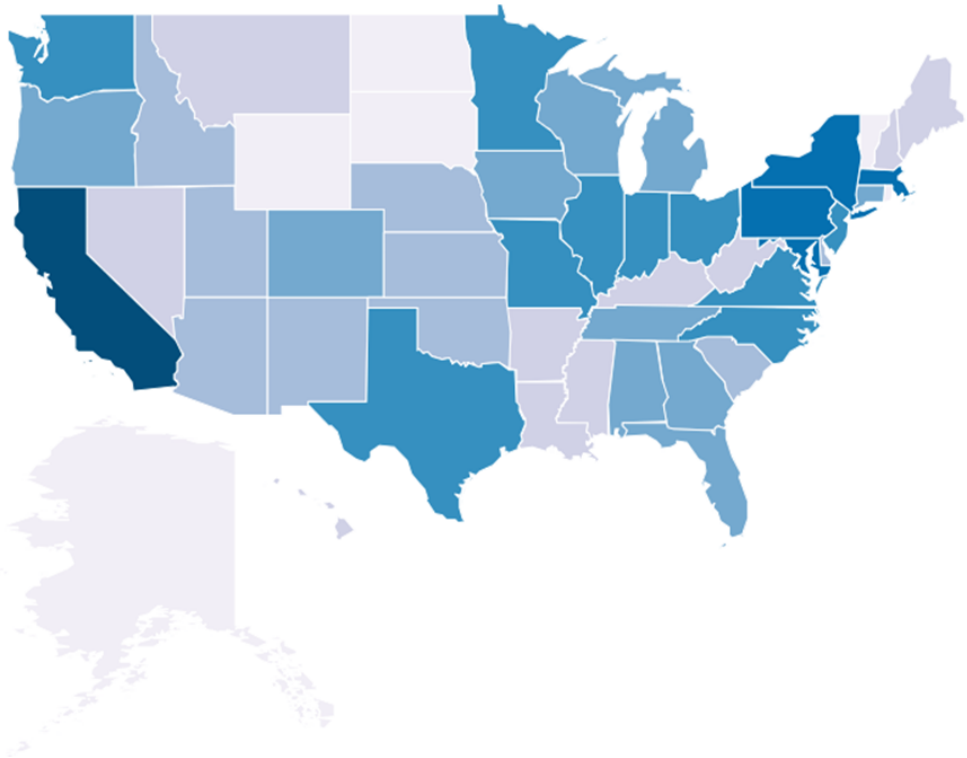
High Demand Areas by MSA: Industry Research 2019



TOP 15 HIRING REGIONS

Metro Area	Job Postings
Boston-Cambridge-Nashua, MA-NH (Metropolitan NECTA)	2,823
San Francisco-Oakland-Hayward, CA (Metropolitan Statistical Area)	2,274
San Diego-Carlsbad, CA (Metropolitan Statistical Area)	1,191
New York-Newark-Jersey City, NY-NJ-PA (Metropolitan Statistical Area)	1,143
Washington-Arlington-Alexandria, DC-VA-MD-WV (Metropolitan Statistical Area)	932
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD (Metropolitan Statistical Area)	748
Los Angeles-Long Beach-Anaheim, CA (Metropolitan Statistical Area)	495
Seattle-Tacoma-Bellevue, WA (Metropolitan Statistical Area)	466
San Jose-Sunnyvale-Santa Clara, CA (Metropolitan Statistical Area)	410
Chicago-Naperville-Elgin, IL-IN-WI (Metropolitan Statistical Area)	378
Durham-Chapel Hill, NC (Metropolitan Statistical Area)	277
Indianapolis-Carmel-Anderson, IN (Metropolitan Statistical Area)	211
Houston-The Woodlands-Sugar Land, TX (Metropolitan Statistical Area)	205
Cincinnati, OH-KY-IN (Metropolitan Statistical Area)	191
St. Louis, MO-IL (Metropolitan Statistical Area)	181

High Demand Areas by State: Industry Research 2019



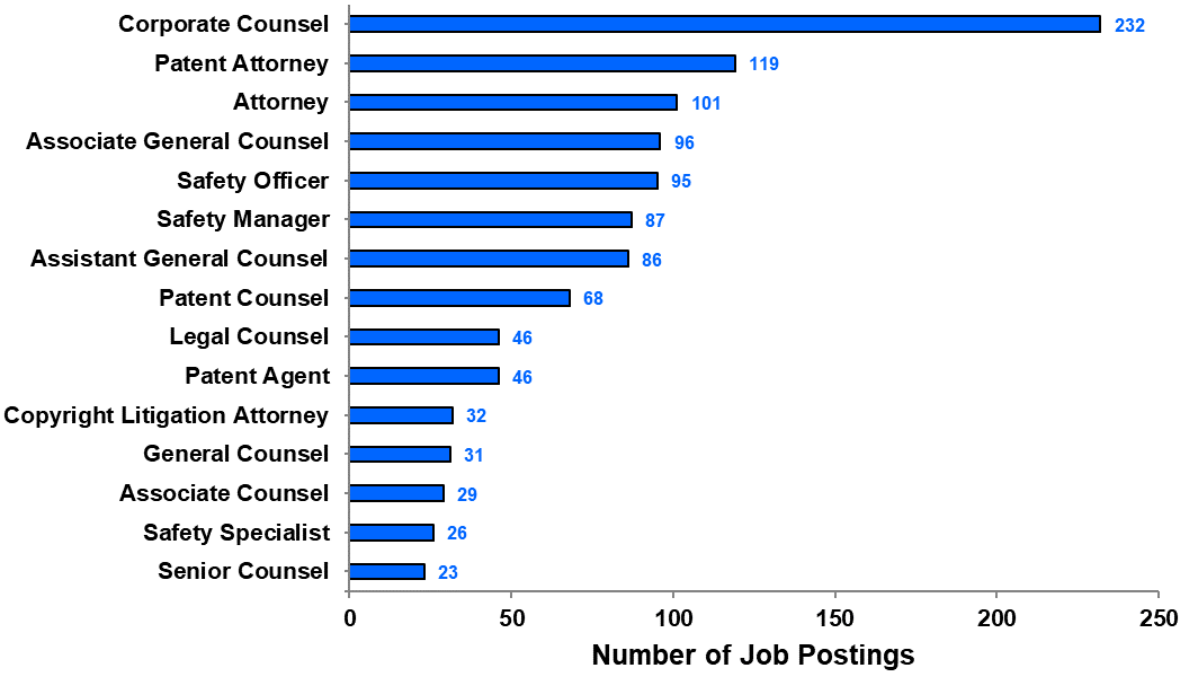
TOP 15 HIRING REGIONS

State	Job Postings
California	4,737
Massachusetts	2,991
New York	858
Maryland	803
Pennsylvania	781
New Jersey	641
North Carolina	610
Texas	561
Washington	551
Ohio	449
Illinois	442
Indiana	289
Missouri	287
Minnesota	285
Virginia	274

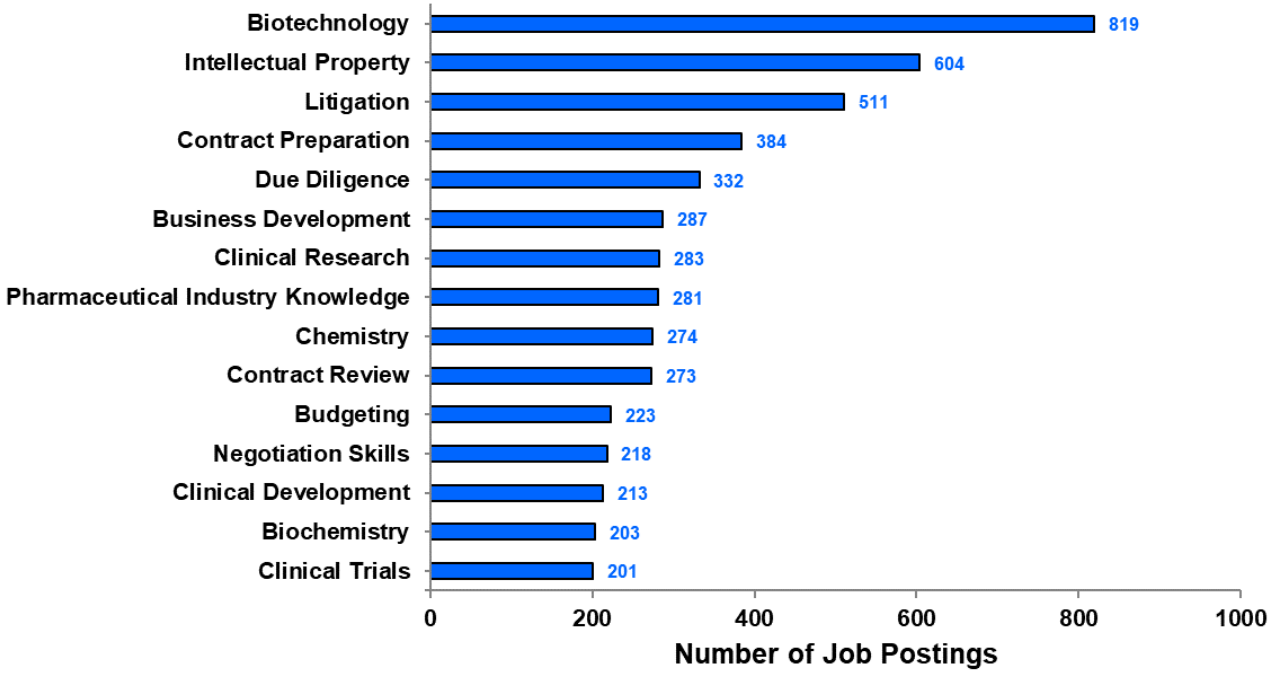
Law

Number of job postings (nationwide): 2,038

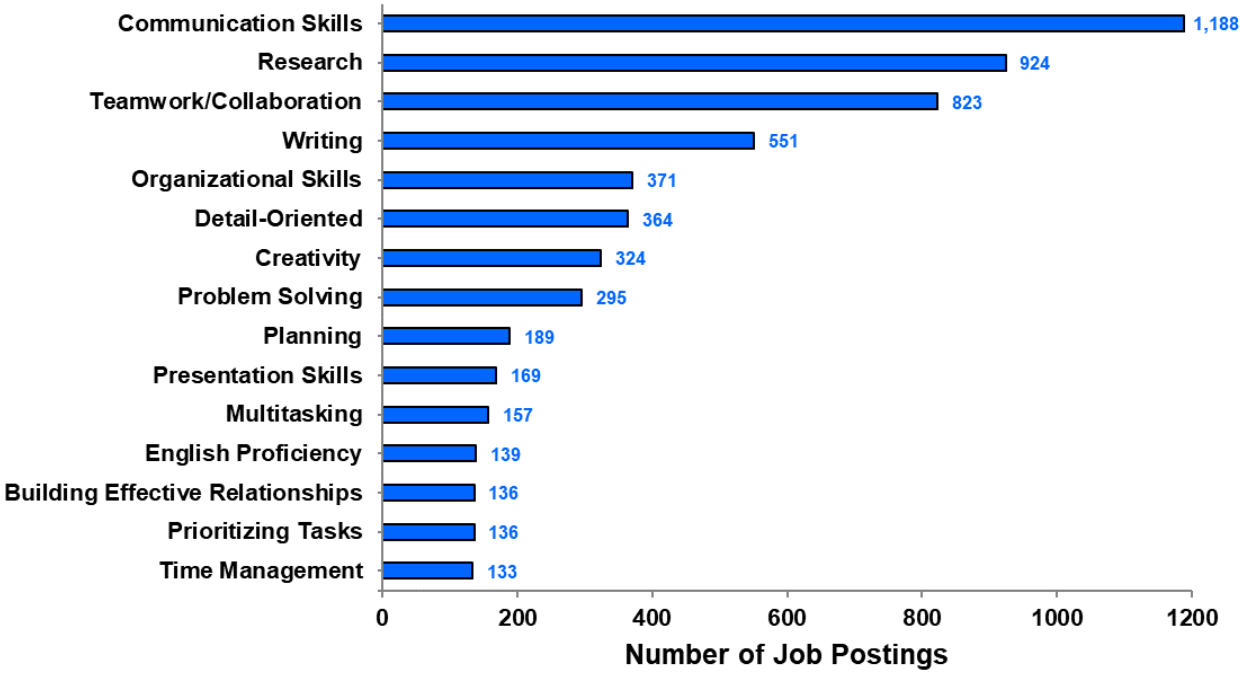
Top Job Titles: Law 2019



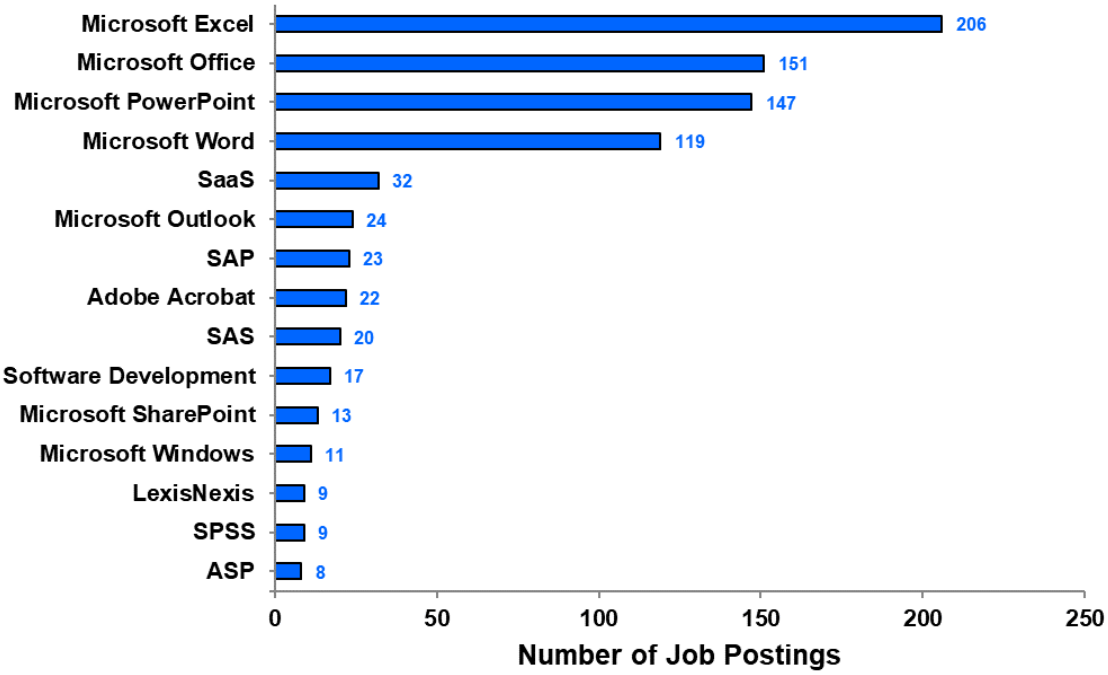
Specialized (Hard) Skills: Law 2019



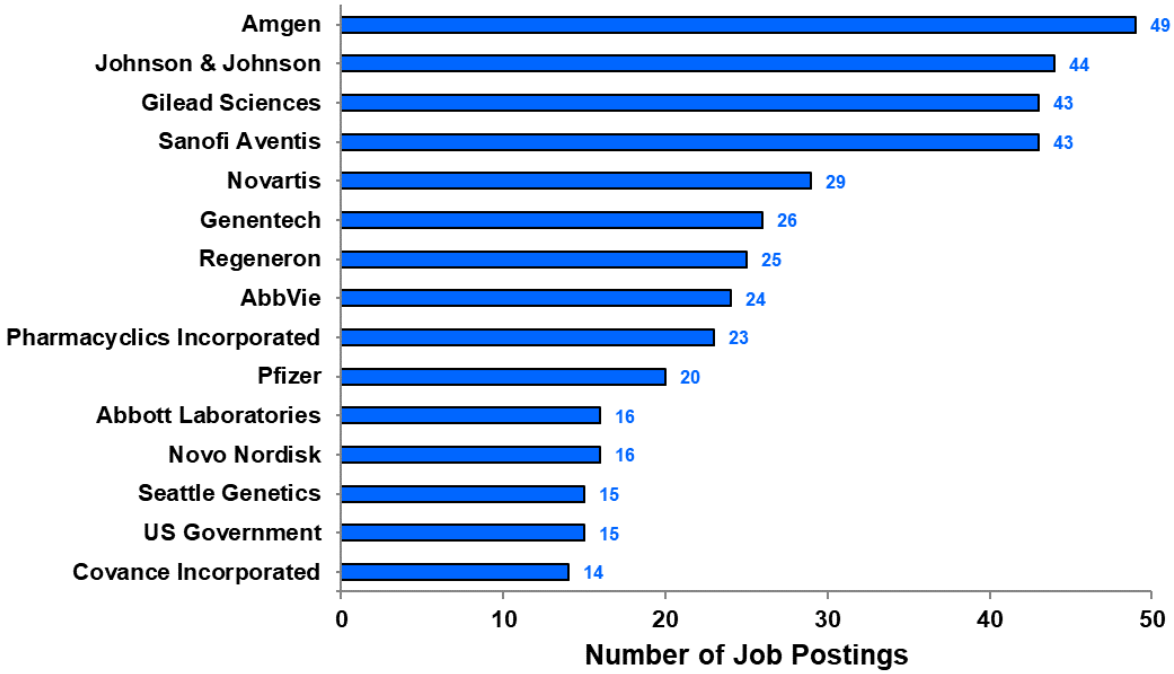
Baseline (Soft) Skills: Law 2019



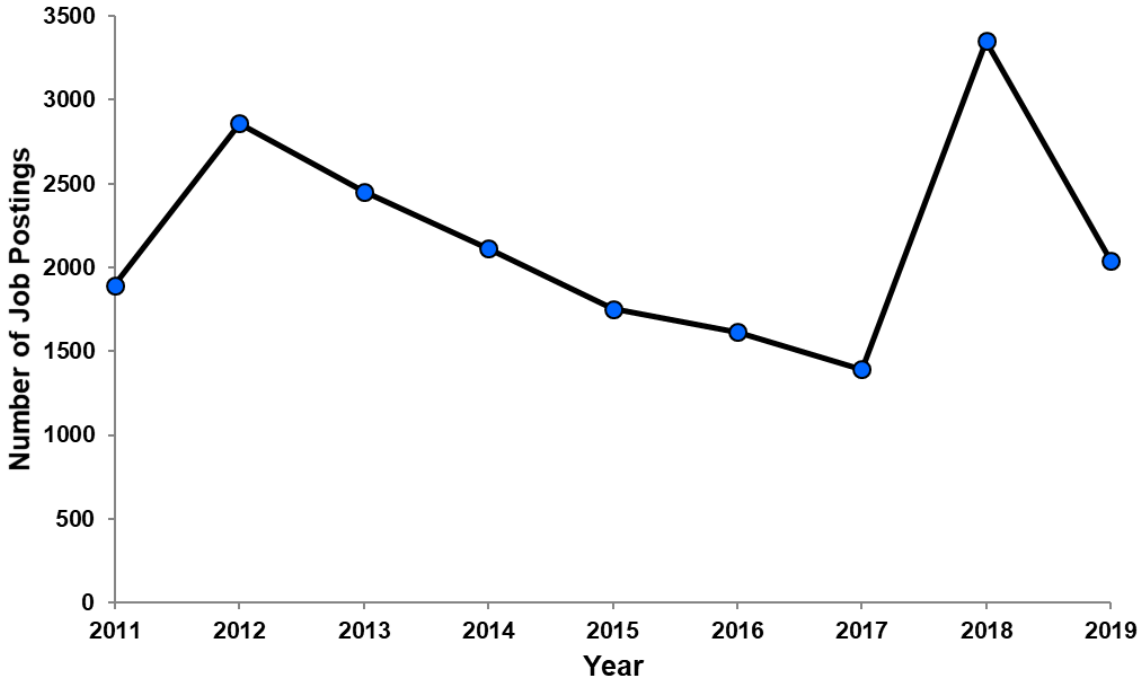
Computer Skills: Law 2019



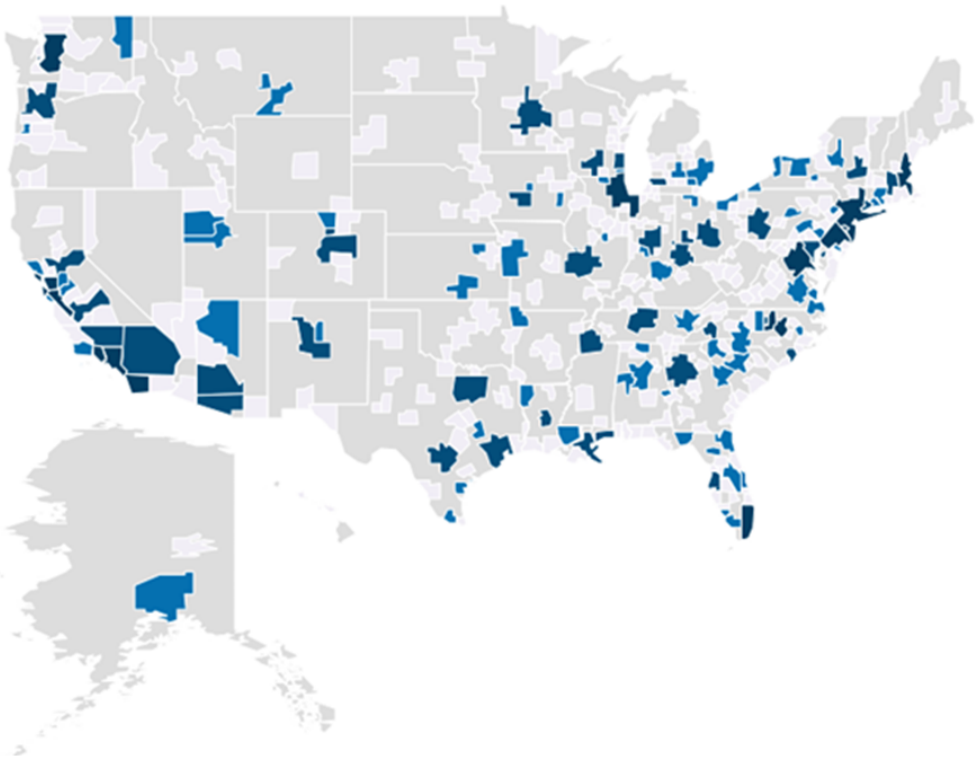
Top Employers: Law 2019



Job Postings by Year: Law 2019



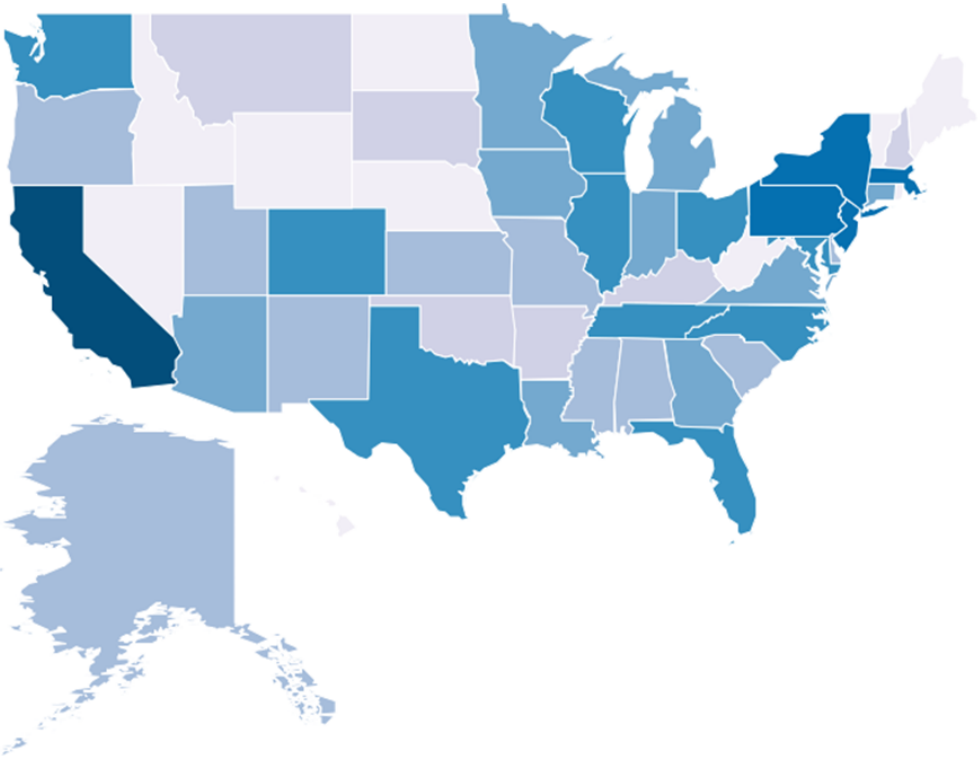
High Demand Areas by MSA: Law 2019



TOP 15 HIRING REGIONS

Metro Area	Job Postings
Boston-Cambridge-Nashua, MA-NH (Metropolitan NECTA)	344
San Francisco-Oakland-Hayward, CA (Metropolitan Statistical Area)	286
New York-Newark-Jersey City, NY-NJ-PA (Metropolitan Statistical Area)	267
San Diego-Carlsbad, CA (Metropolitan Statistical Area)	106
Washington-Arlington-Alexandria, DC-VA-MD-WV (Metropolitan Statistical Area)	102
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD (Metropolitan Statistical Area)	88
Los Angeles-Long Beach-Anaheim, CA (Metropolitan Statistical Area)	74
San Jose-Sunnyvale-Santa Clara, CA (Metropolitan Statistical Area)	69
Chicago-Naperville-Elgin, IL-IN-WI (Metropolitan Statistical Area)	58
Seattle-Tacoma-Bellevue, WA (Metropolitan Statistical Area)	50
Oxnard-Thousand Oaks-Ventura, CA (Metropolitan Statistical Area)	46
Raleigh, NC (Metropolitan Statistical Area)	34
Trenton, NJ (Metropolitan Statistical Area)	26
Durham-Chapel Hill, NC (Metropolitan Statistical Area)	25
Miami-Fort Lauderdale-West Palm Beach, FL (Metropolitan Statistical Area)	21

High Demand Areas by State: Law 2019



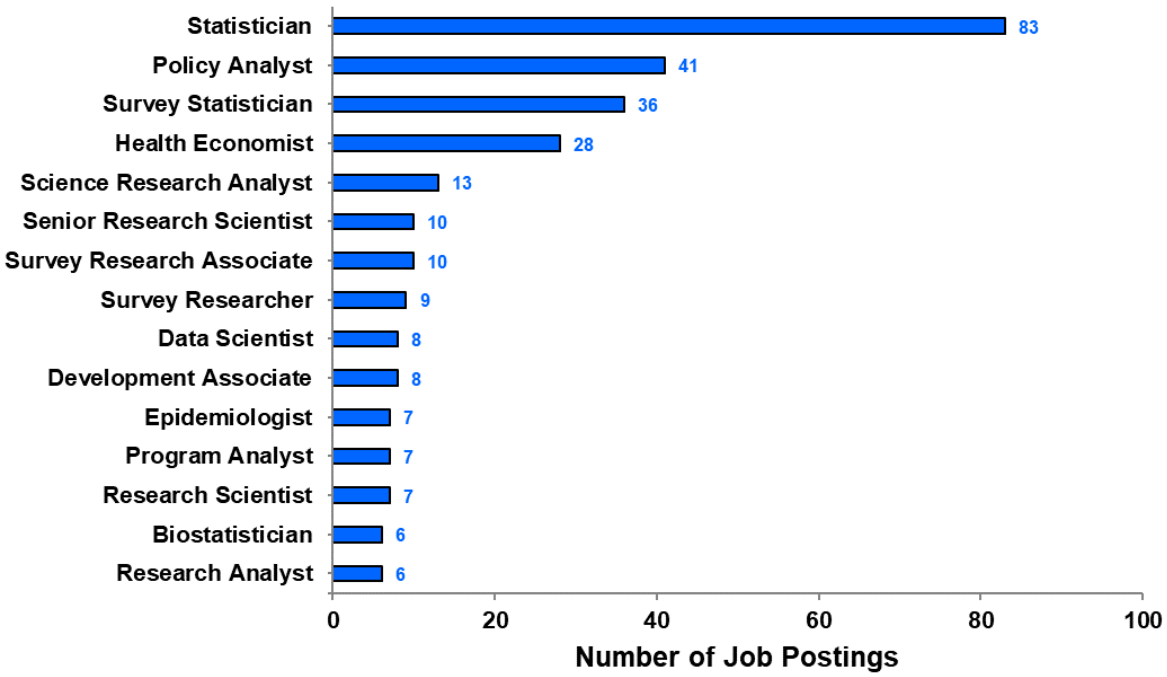
TOP 15 HIRING REGIONS

State	Job Postings
California	615
Massachusetts	357
New Jersey	179
New York	134
Pennsylvania	98
North Carolina	83
Maryland	66
Illinois	61
Washington	52
District of Columbia	39
Florida	38
Ohio	35
Texas	26
Colorado	21
Tennessee	19

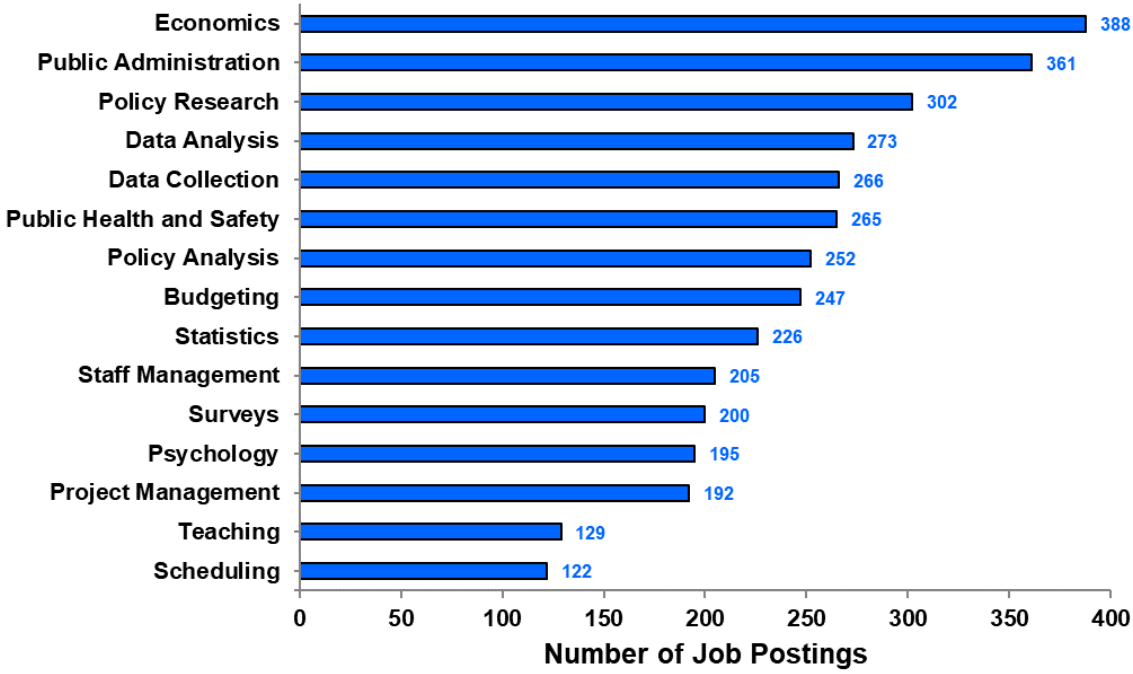
Policy

Number of job postings (nationwide): 953

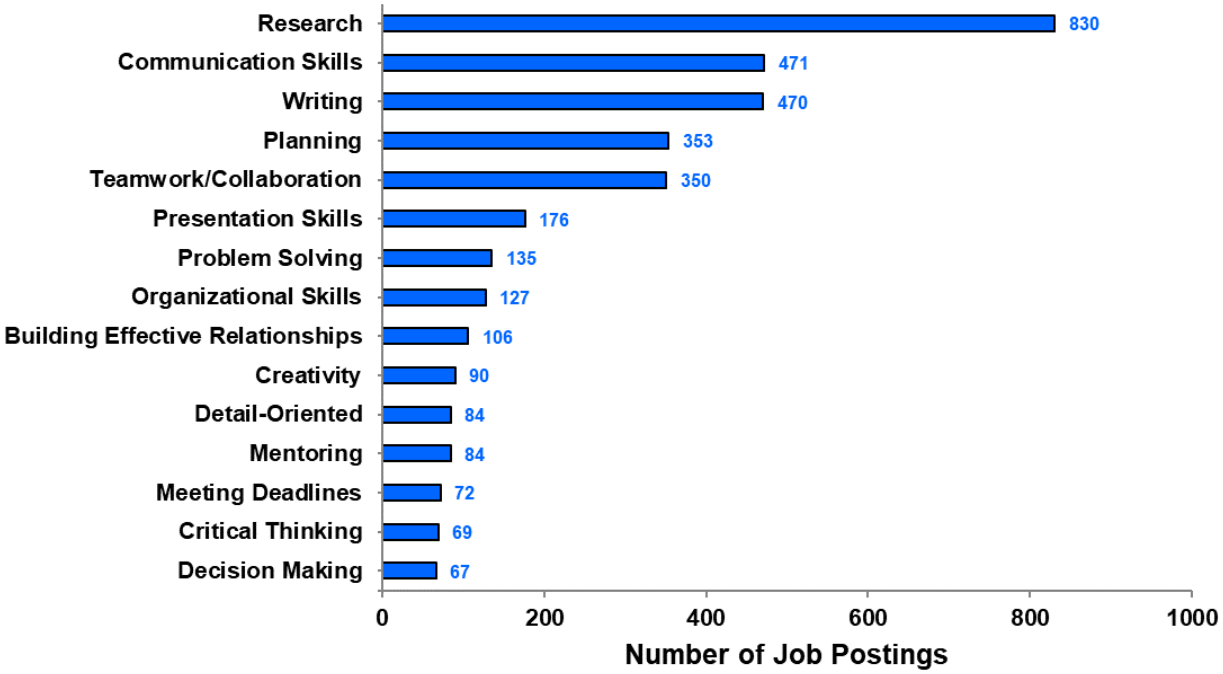
Top Job Titles: Policy 2019



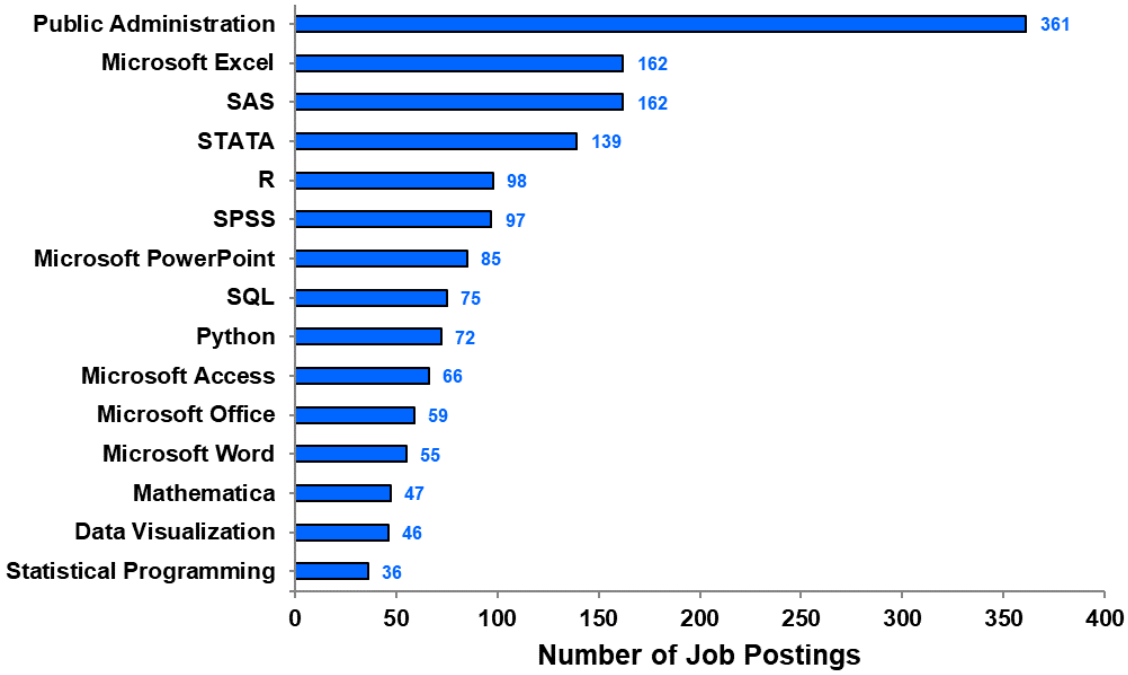
Specialized (Hard) Skills: Policy 2019



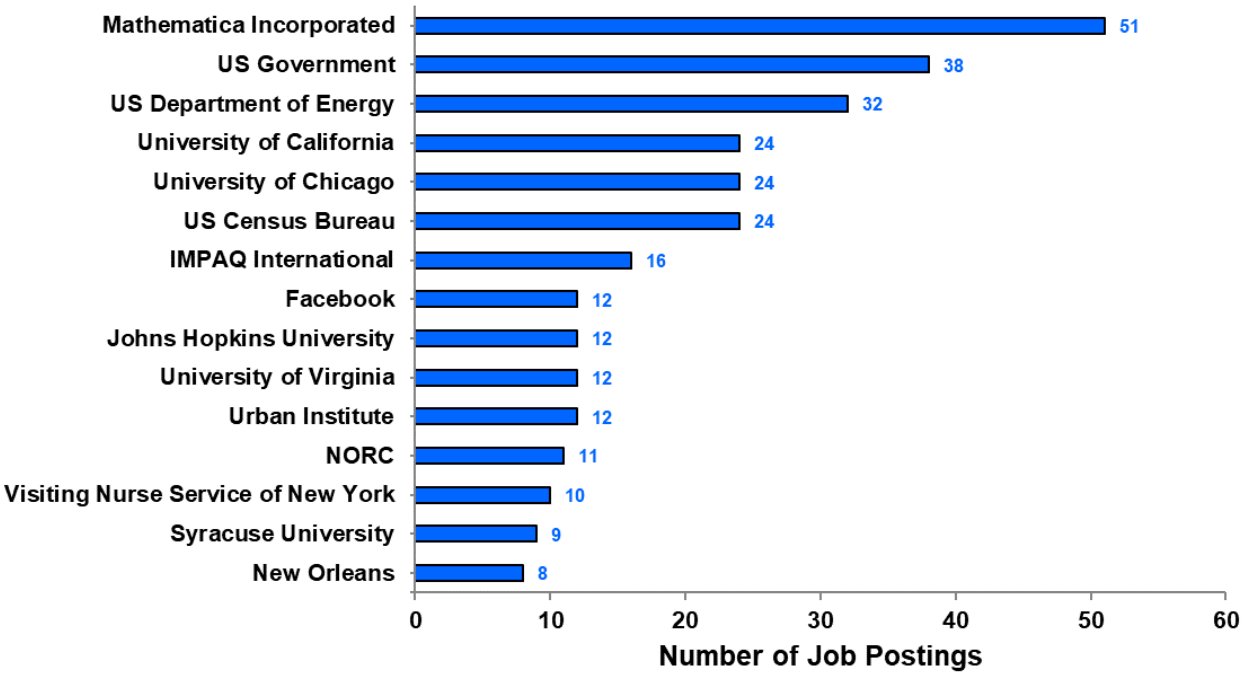
Baseline (Soft) Skills: Policy 2019



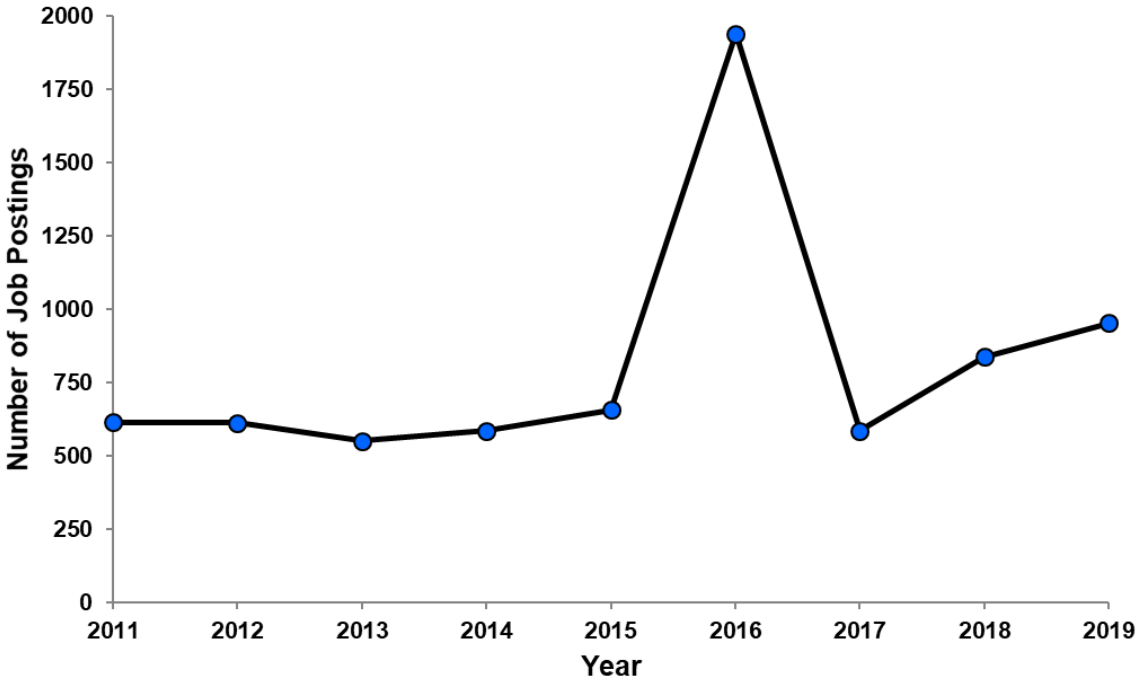
Computer Skills: Policy 2019



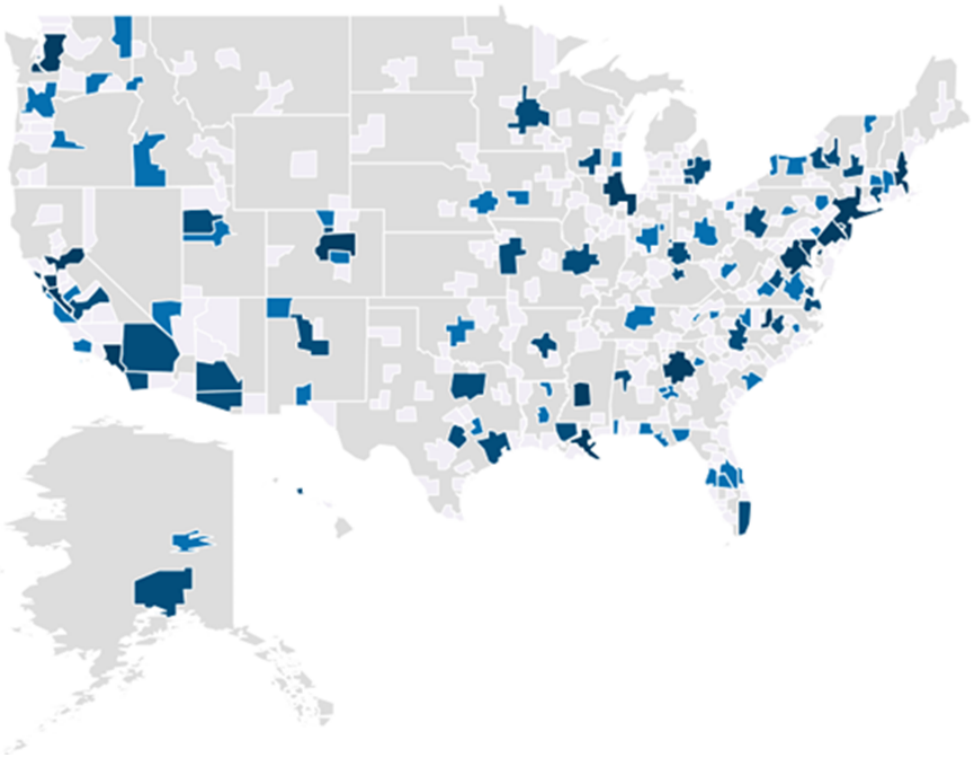
Top Employers: Policy 2019



Job Postings by Year: Policy 2019



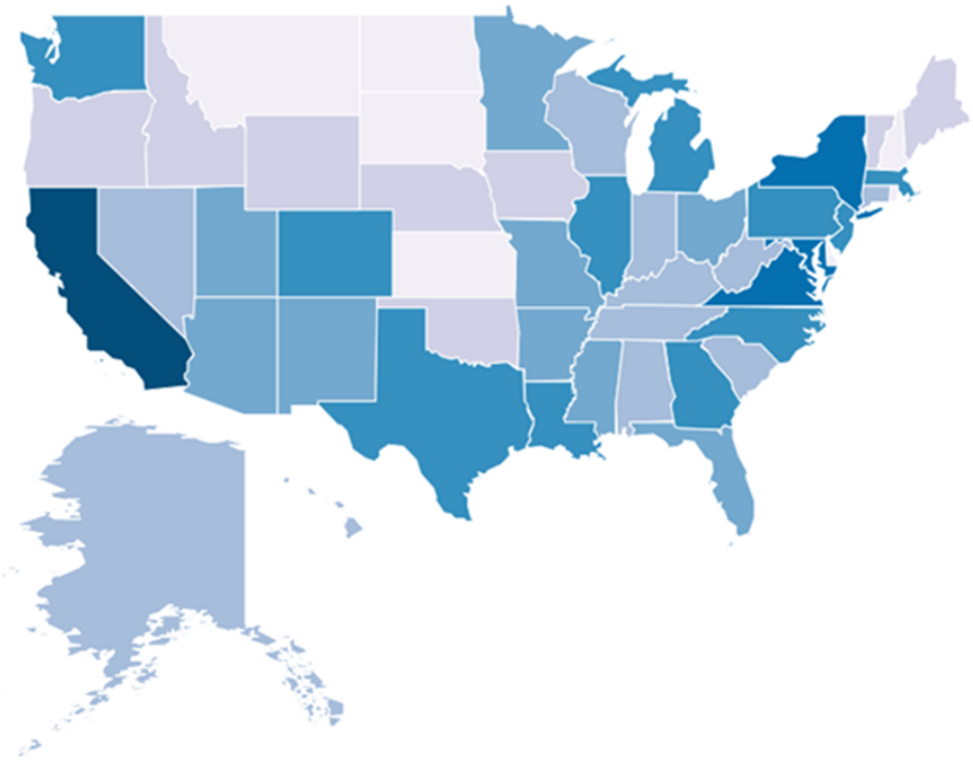
High Demand Areas by MSA: Policy 2019



TOP 15 HIRING REGIONS

Metro Area	Job Postings
Washington-Arlington-Alexandria, DC-VA-MD-WV (Metropolitan Statistical Area)	171
New York-Newark-Jersey City, NY-NJ-PA (Metropolitan Statistical Area)	70
San Francisco-Oakland-Hayward, CA (Metropolitan Statistical Area)	66
Boston-Cambridge-Nashua, MA-NH (Metropolitan NECTA)	47
Chicago-Naperville-Elgin, IL-IN-WI (Metropolitan Statistical Area)	44
Baltimore-Columbia-Towson, MD (Metropolitan Statistical Area)	32
Los Angeles-Long Beach-Anaheim, CA (Metropolitan Statistical Area)	29
Durham-Chapel Hill, NC (Metropolitan Statistical Area)	23
New Orleans-Metairie, LA (Metropolitan Statistical Area)	17
Seattle-Tacoma-Bellevue, WA (Metropolitan Statistical Area)	17
Jackson, MS (Metropolitan Statistical Area)	14
San Jose-Sunnyvale-Santa Clara, CA (Metropolitan Statistical Area)	14
Denver-Aurora-Lakewood, CO (Metropolitan Statistical Area)	13
Atlanta-Sandy Springs-Roswell, GA (Metropolitan Statistical Area)	12
Olympia-Tumwater, WA (Metropolitan Statistical Area)	12

High Demand Areas by State: Policy 2019



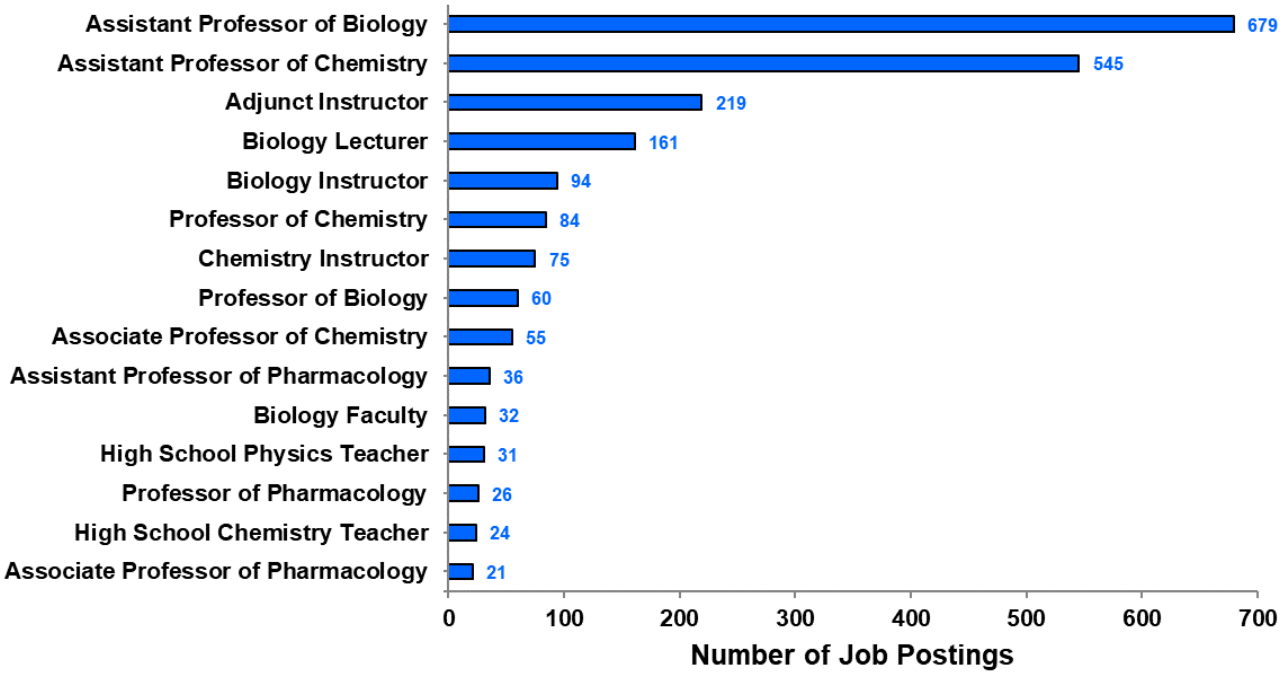
TOP 15 HIRING REGIONS

State	Job Postings
California	145
Maryland	93
New York	85
District of Columbia	65
Virginia	63
Massachusetts	57
Illinois	44
Washington	39
North Carolina	37
Louisiana	27
Pennsylvania	23
Michigan	21
Colorado	20
New Jersey	20
Georgia	18

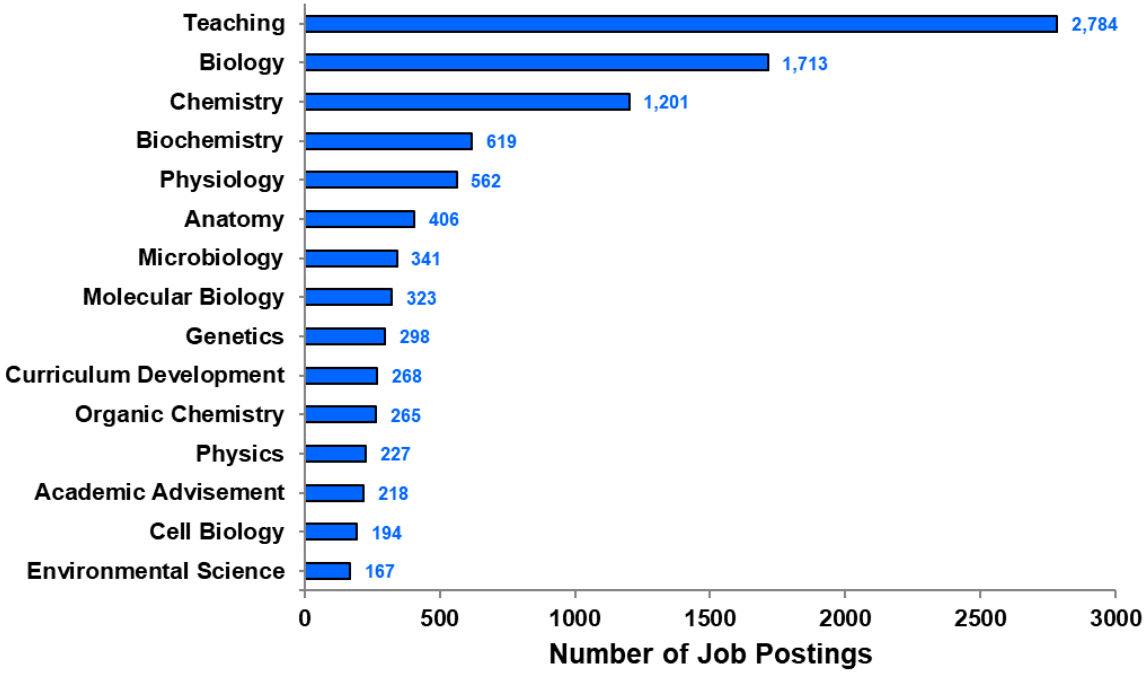
Teaching

Number of job postings (nationwide): 3,028

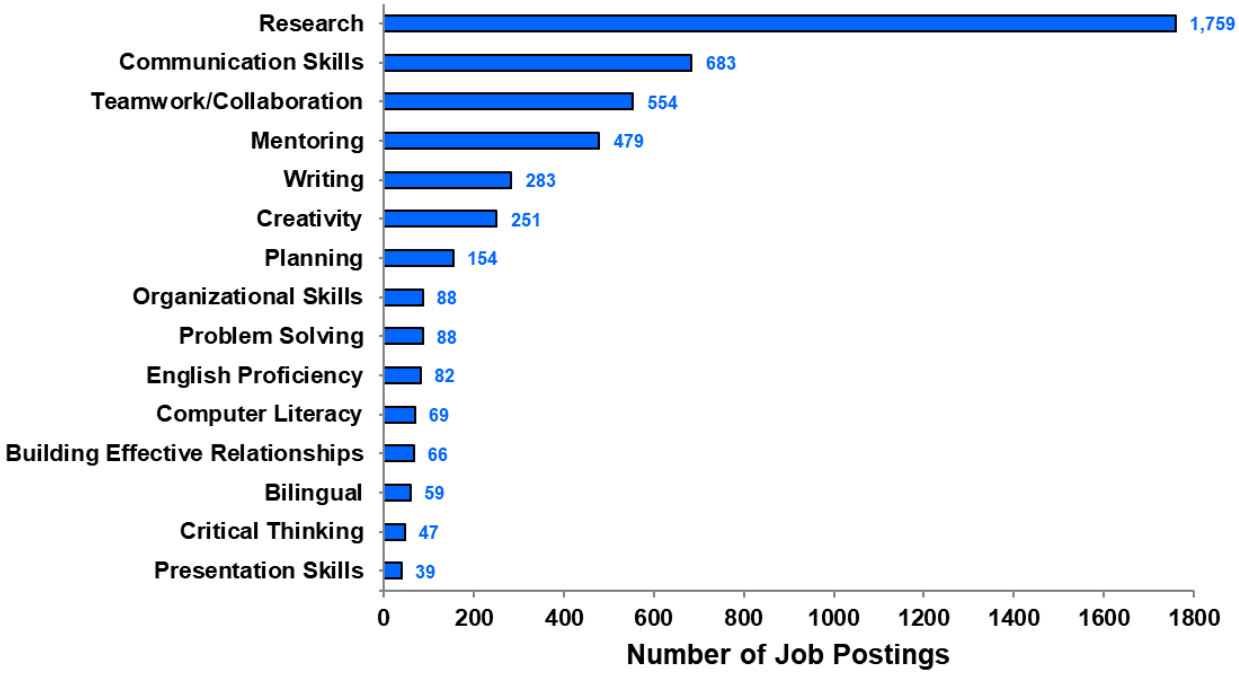
Top Job Titles: Teaching 2019



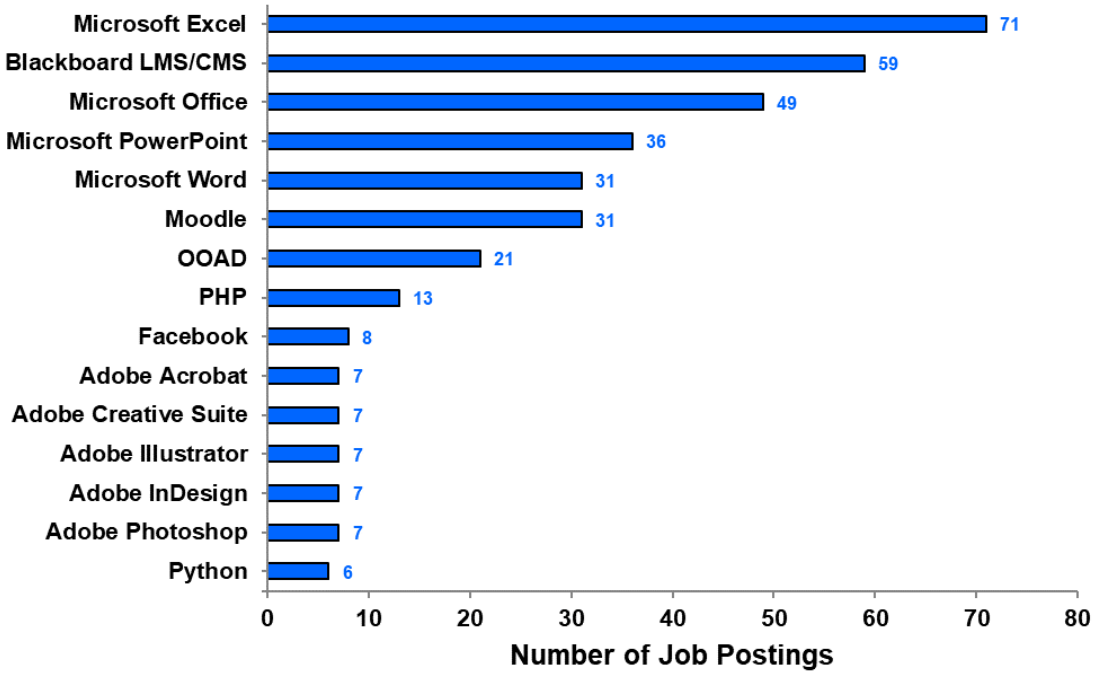
Specialized (Hard) Skills: Teaching 2019



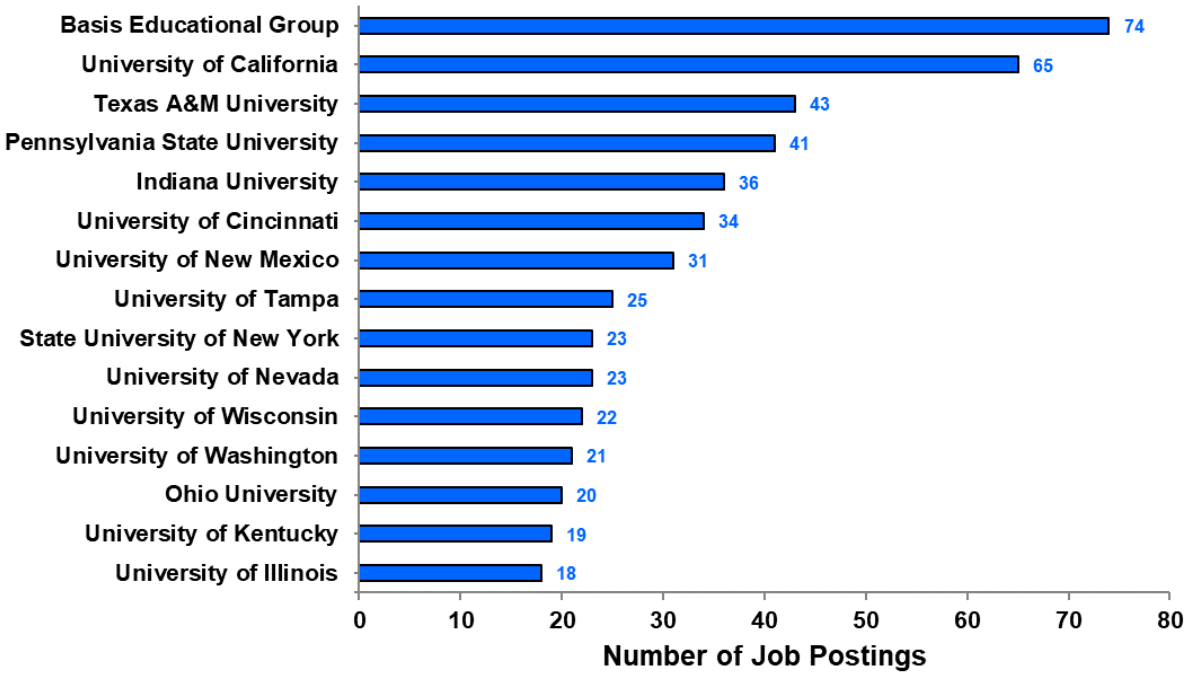
Baseline (Soft) Skills: Teaching 2019



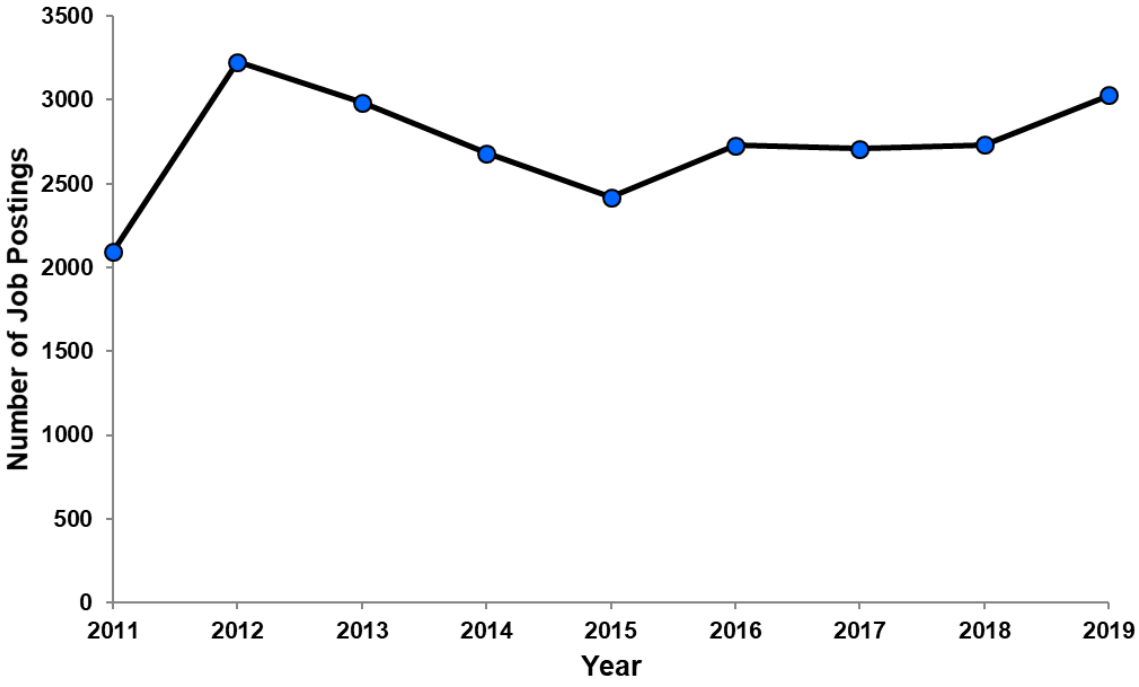
Computer Skills: Teaching 2019



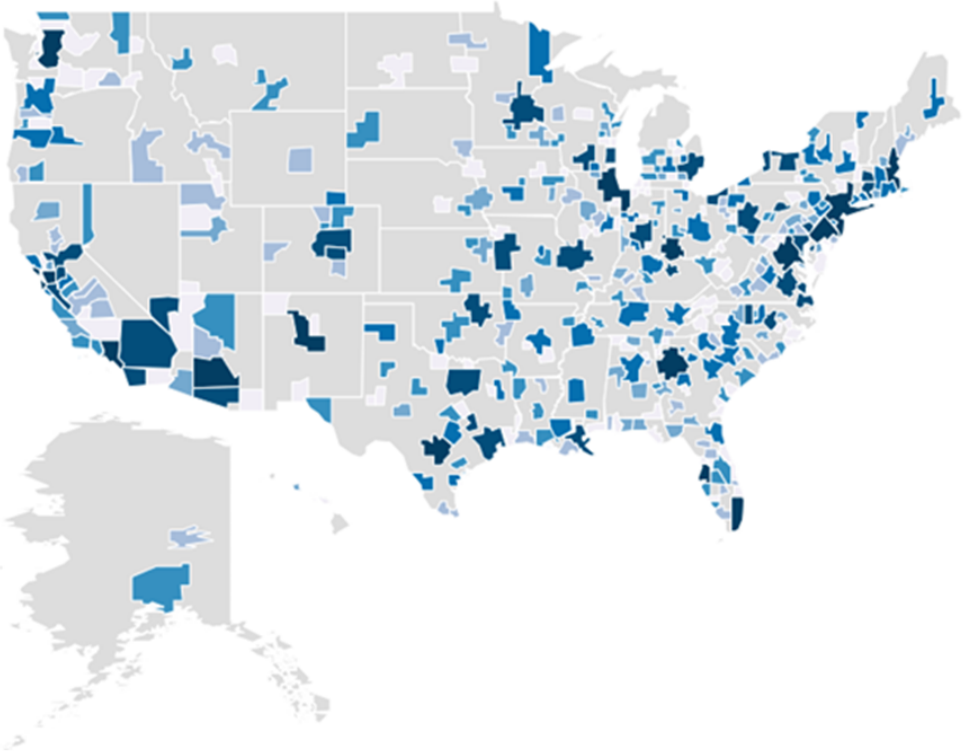
Top Employers: Teaching 2019



Job Postings by Year: Teaching 2019



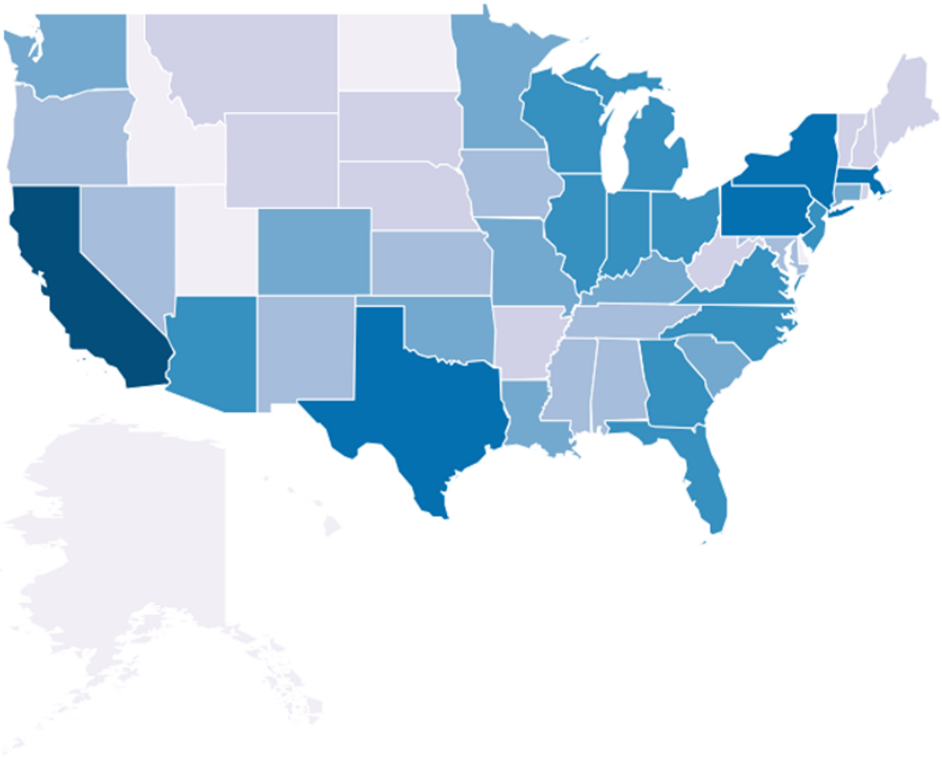
High Demand Areas by MSA: Teaching 2019



TOP 15 HIRING REGIONS

Metro Area	Job Postings
New York-Newark-Jersey City, NY-NJ-PA (Metropolitan Statistical Area)	139
San Francisco-Oakland-Hayward, CA (Metropolitan Statistical Area)	122
Los Angeles-Long Beach-Anaheim, CA (Metropolitan Statistical Area)	98
Boston-Cambridge-Nashua, MA-NH (Metropolitan NECTA)	95
Chicago-Naperville-Elgin, IL-IN-WI (Metropolitan Statistical Area)	80
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD (Metropolitan Statistical Area)	66
Washington-Arlington-Alexandria, DC-VA-MD-WV (Metropolitan Statistical Area)	61
Seattle-Tacoma-Bellevue, WA (Metropolitan Statistical Area)	50
Phoenix-Mesa-Scottsdale, AZ (Metropolitan Statistical Area)	49
Cincinnati, OH-KY-IN (Metropolitan Statistical Area)	46
Miami-Fort Lauderdale-West Palm Beach, FL (Metropolitan Statistical Area)	42
Atlanta-Sandy Springs-Roswell, GA (Metropolitan Statistical Area)	41
Tampa-St. Petersburg-Clearwater, FL (Metropolitan Statistical Area)	41
Albuquerque, NM (Metropolitan Statistical Area)	35
San Antonio-New Braunfels, TX (Metropolitan Statistical Area)	35

High Demand Areas by State: Teaching 2019



TOP 15 HIRING REGIONS

State	Job Postings
California	383
Pennsylvania	187
Texas	186
New York	169
Massachusetts	144
Ohio	123
Florida	117
Georgia	104
Illinois	99
Virginia	93
North Carolina	89
Arizona	79
New Jersey	71
Wisconsin	70
Indiana	65