

BU's BEST

Biomedical Workforce Data 2020



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These data can also be found online at www.bu.edu/BEST.

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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.

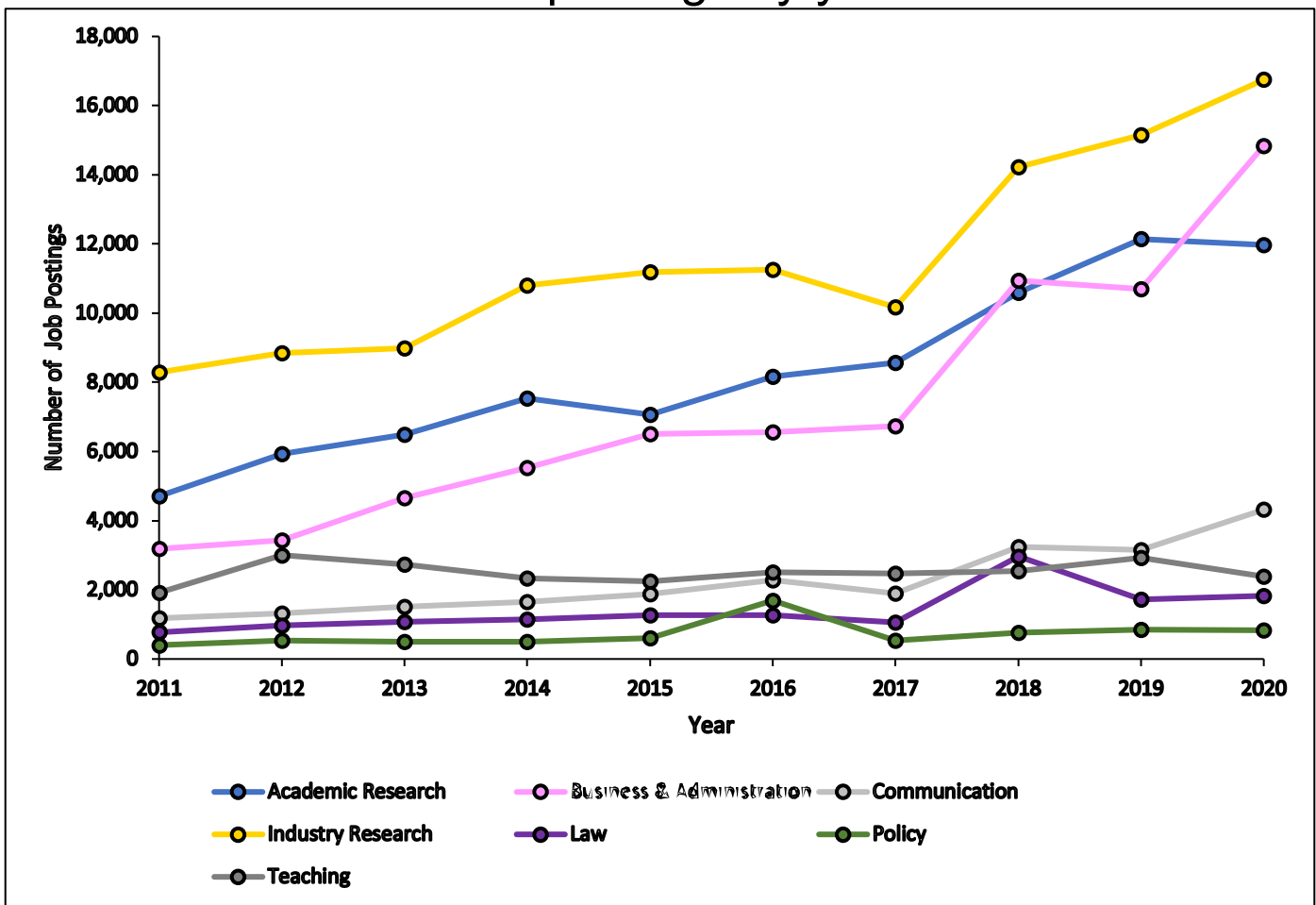
Caveats & Disclaimers

Date ranges are January 2020 – December 2020 for job searches.

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

Career Paths: Job Trends Summary

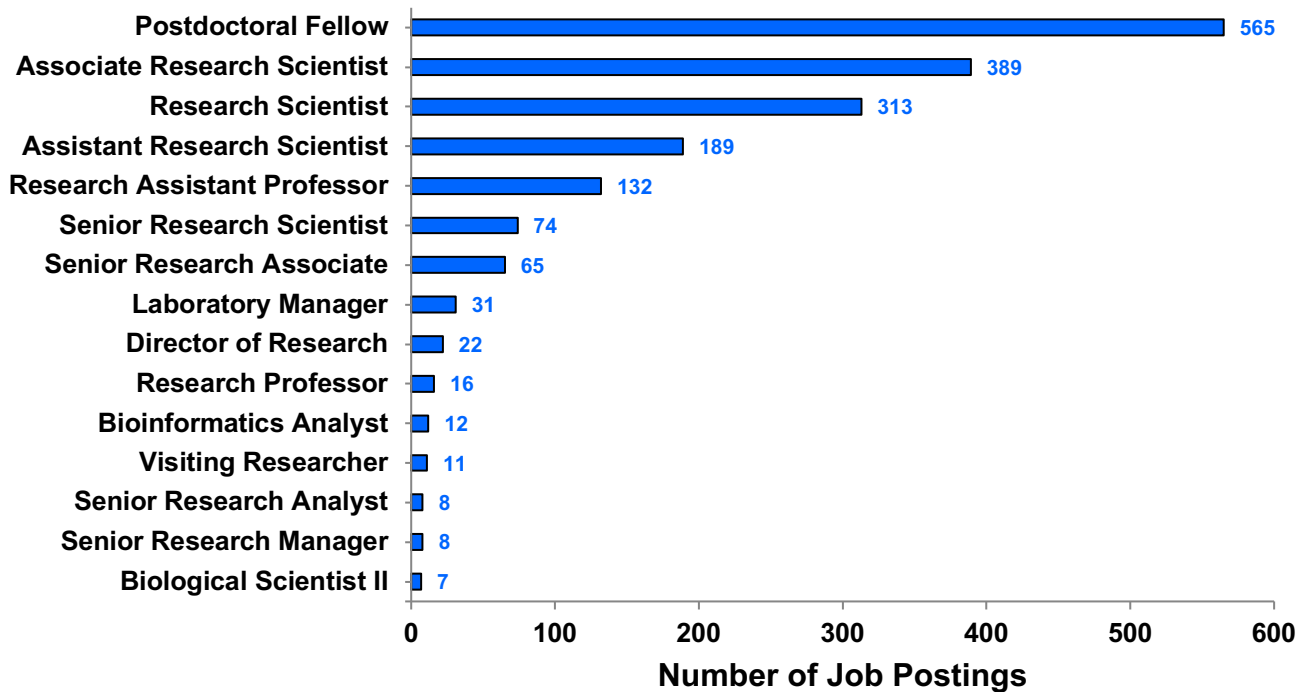
Job postings by year



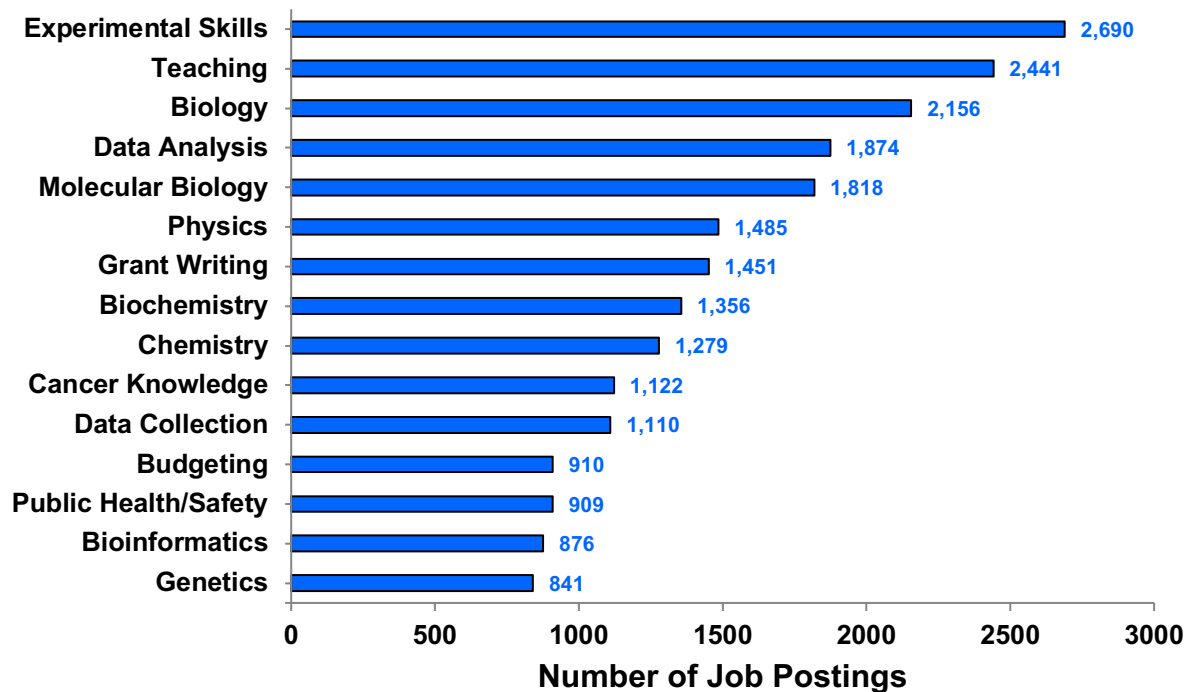
Academic Research

Number of job postings (nationwide):
11,971

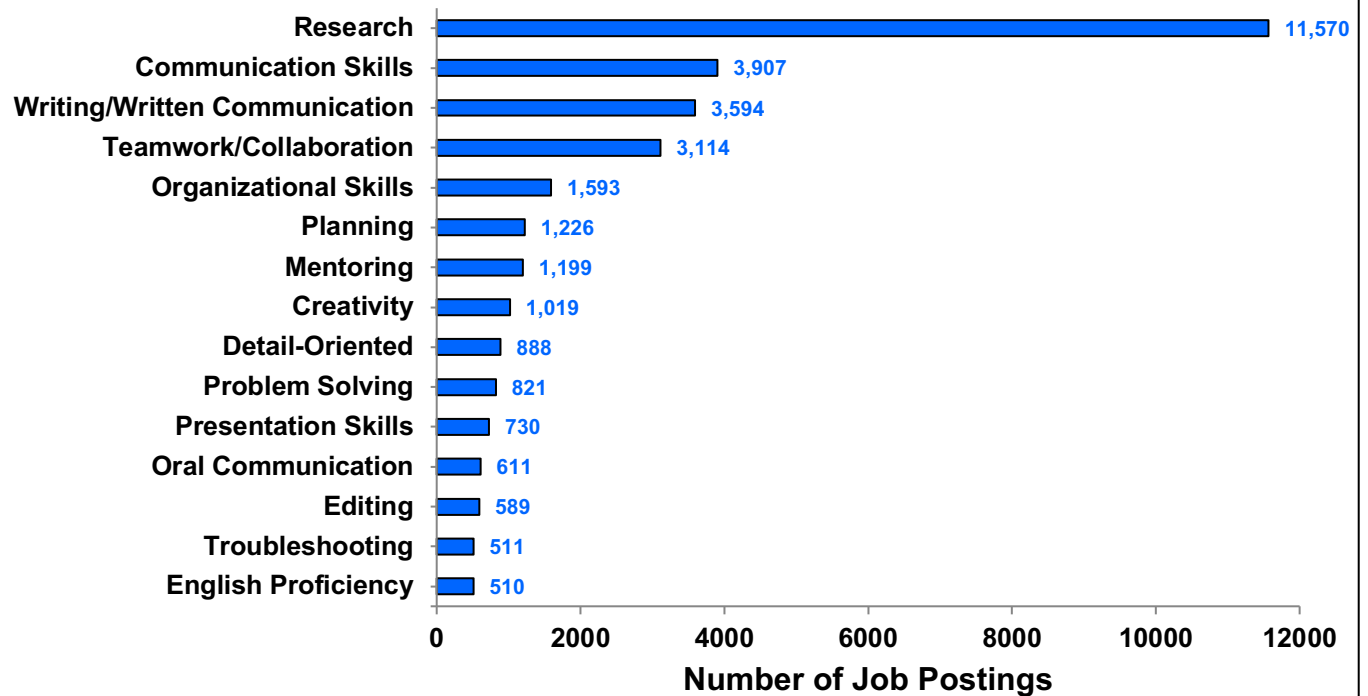
Top Job Titles: Academic Research 2020



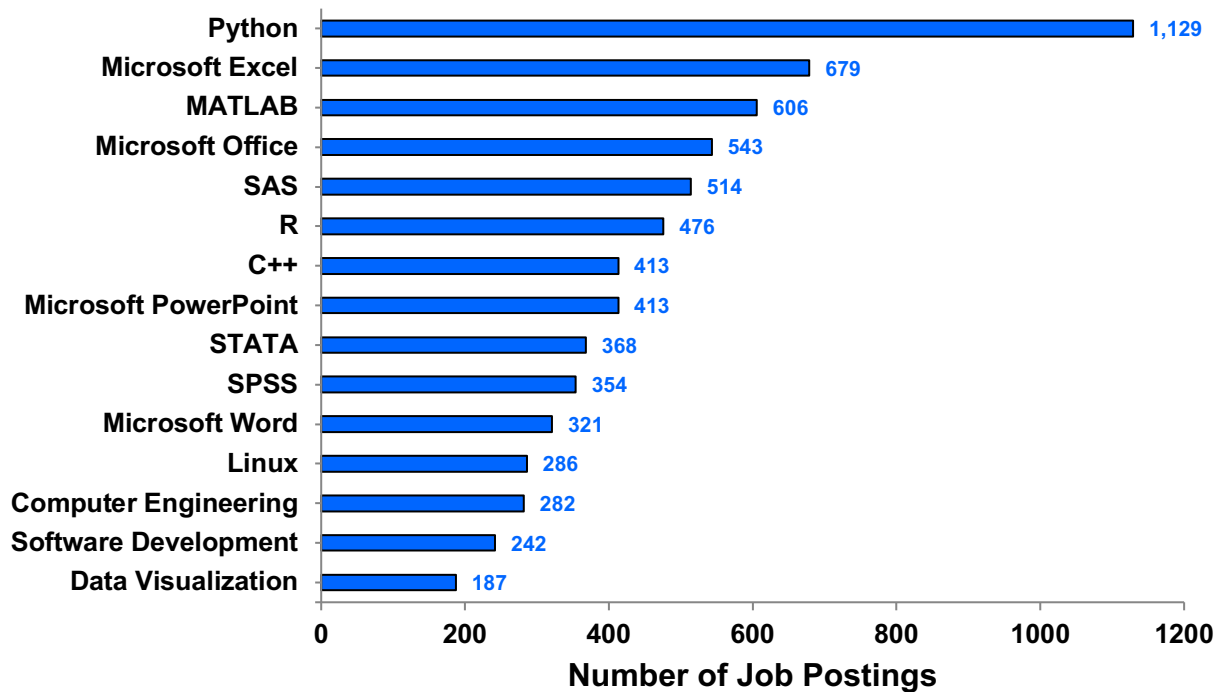
Specialized (Hard) Skills: Academic Research 2020



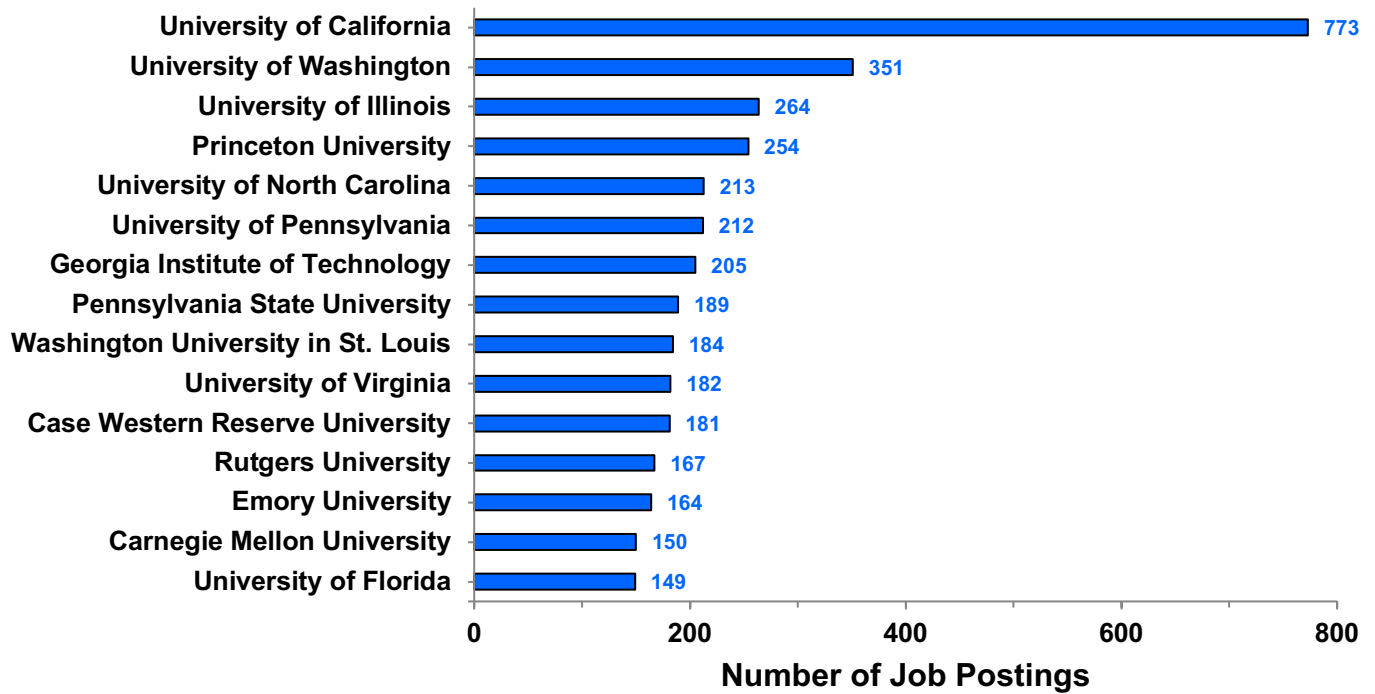
Baseline (Soft) Skills: Academic Research 2020



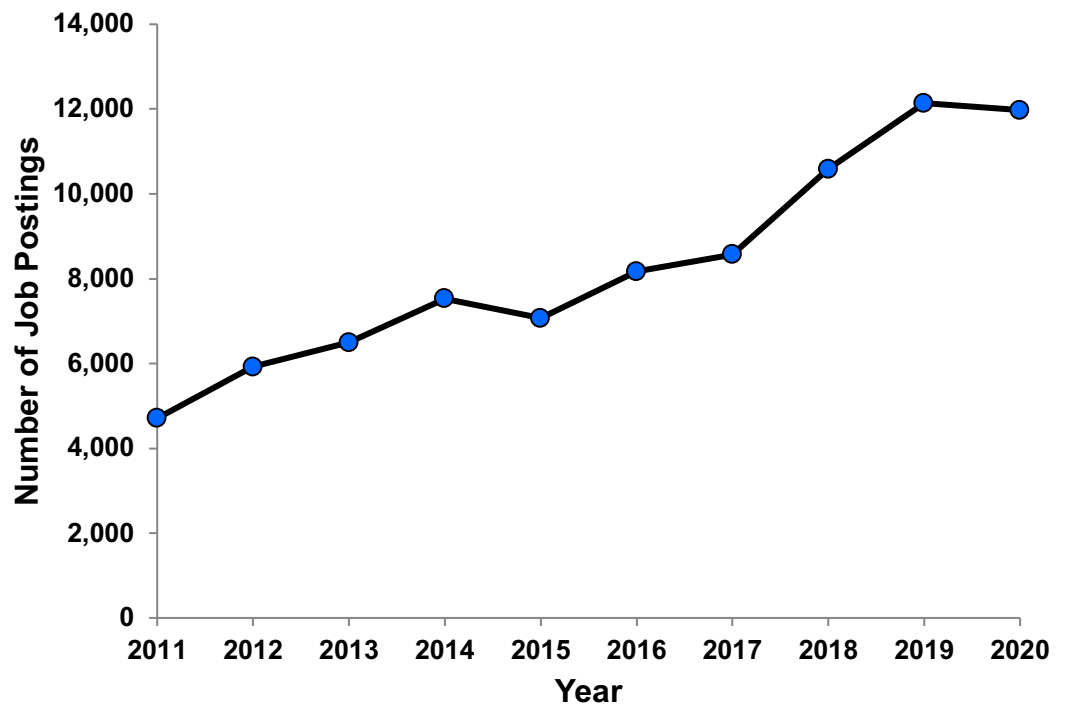
Computer Skills: Academic Research 2020



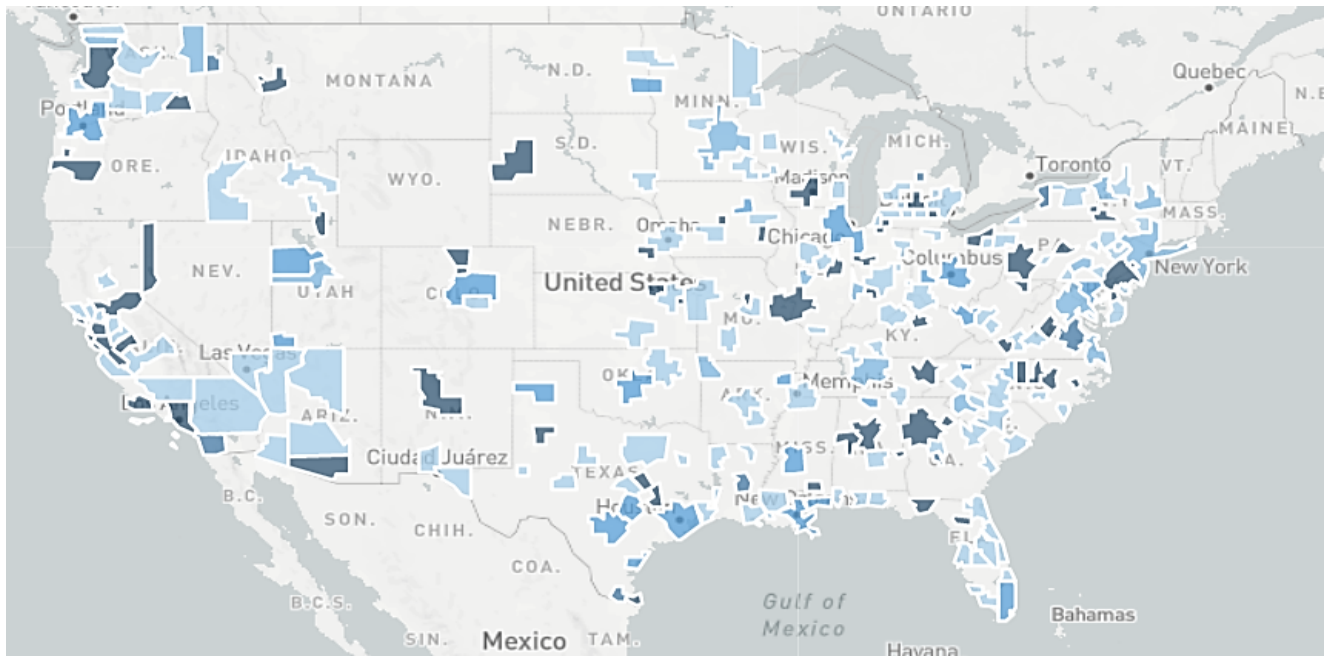
Top Employers: Academic Research 2020



Job Postings by Year: Academic Research 2011-2020



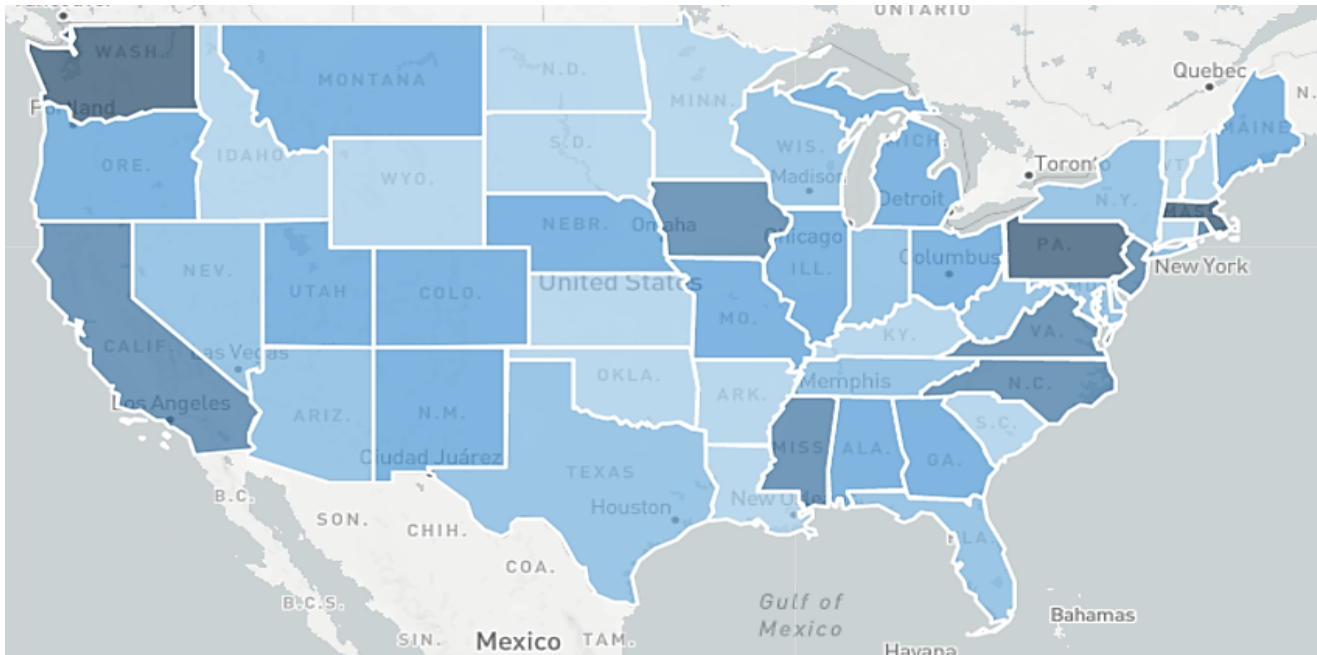
High Demand Areas by MSA: Academic Research 2020



TOP 15 HIRING REGIONS

Metro Area	Job Postings
Los Angeles-Long Beach-Anaheim, CA (Metropolitan Statistical Area)	771
New York-Newark-Jersey City, NY-NJ-PA (Metropolitan Statistical Area)	602
San Francisco-Oakland-Hayward, CA (Metropolitan Statistical Area)	490
Boston-Cambridge-Nashua, MA-NH (Metropolitan NECTA)	451
Chicago-Naperville-Elgin, IL-IN-WI (Metropolitan Statistical Area)	448
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD (Metropolitan Statistical Area)	398
Seattle-Tacoma-Bellevue, WA (Metropolitan Statistical Area)	368
Atlanta-Sandy Springs-Roswell, GA (Metropolitan Statistical Area)	331
Trenton, NJ (Metropolitan Statistical Area)	253
Pittsburgh, PA (Metropolitan Statistical Area)	236
Durham-Chapel Hill, NC (Metropolitan Statistical Area)	225
Houston-The Woodlands-Sugar Land, TX (Metropolitan Statistical Area)	214
St. Louis, MO-IL (Metropolitan Statistical Area)	209
Cleveland-Elyria, OH (Metropolitan Statistical Area)	207
Washington-Arlington-Alexandria, DC-VA-MD-WV (Metropolitan Statistical Area)	189

High Demand Areas by State: Academic Research 2020



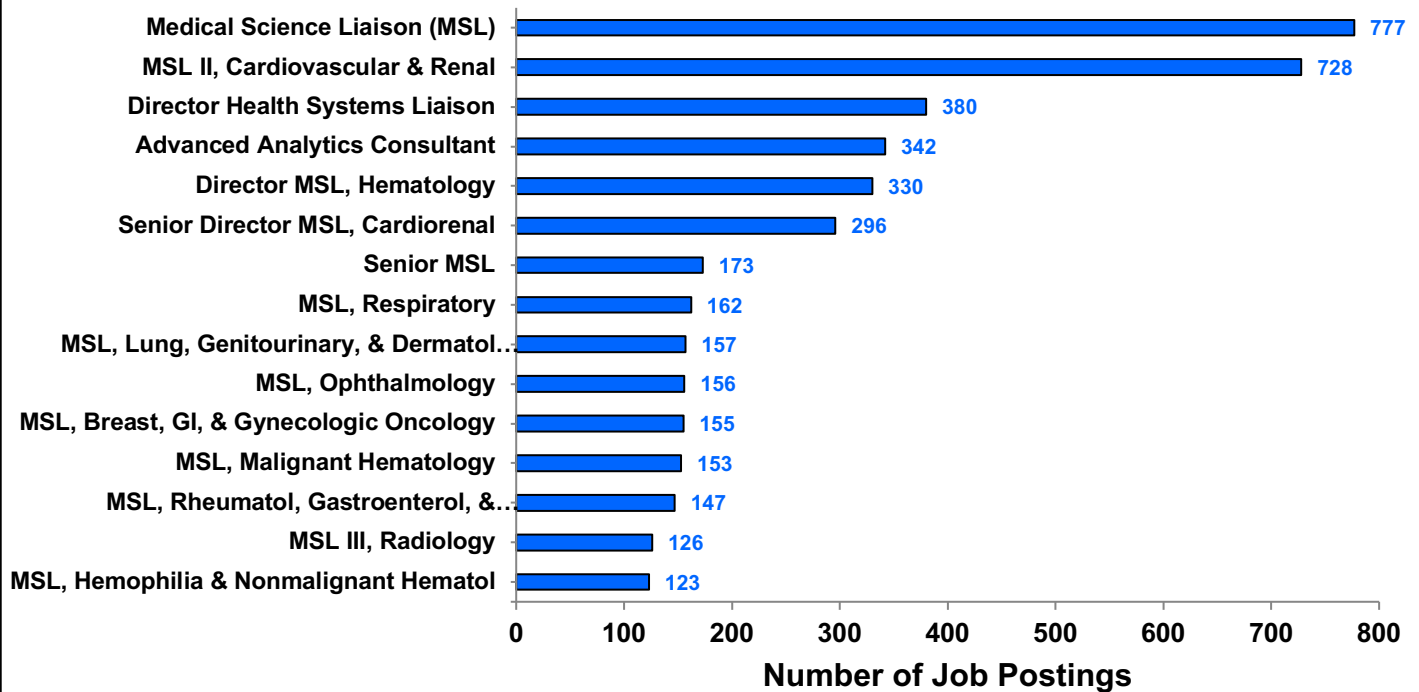
TOP 15 HIRING REGIONS

State	Job Postings
California	2,060
Pennsylvania	818
Texas	724
New York	603
Illinois	567
Massachusetts	544
North Carolina	487
New Jersey	471
Florida	440
Washington	422
Georgia	419
Ohio	417
Virginia	410
Michigan	302
Missouri	246

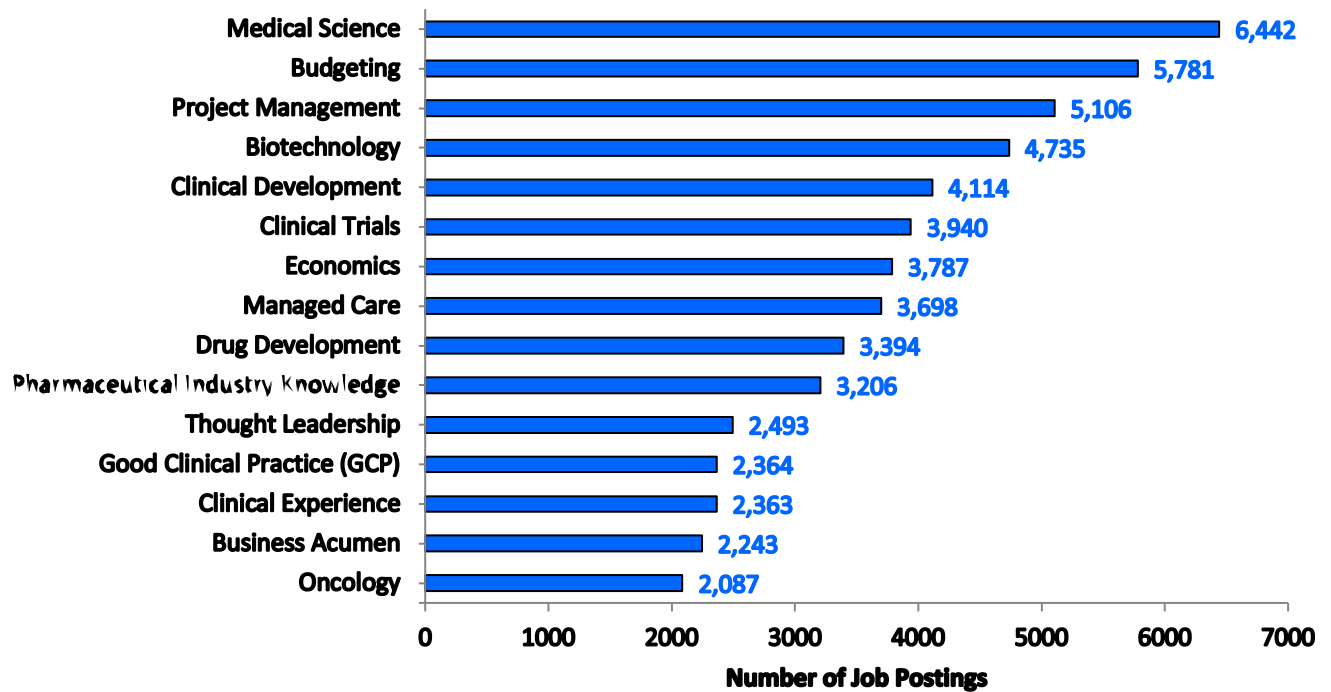
Business & Administration

Number of job postings (nationwide):
14,836

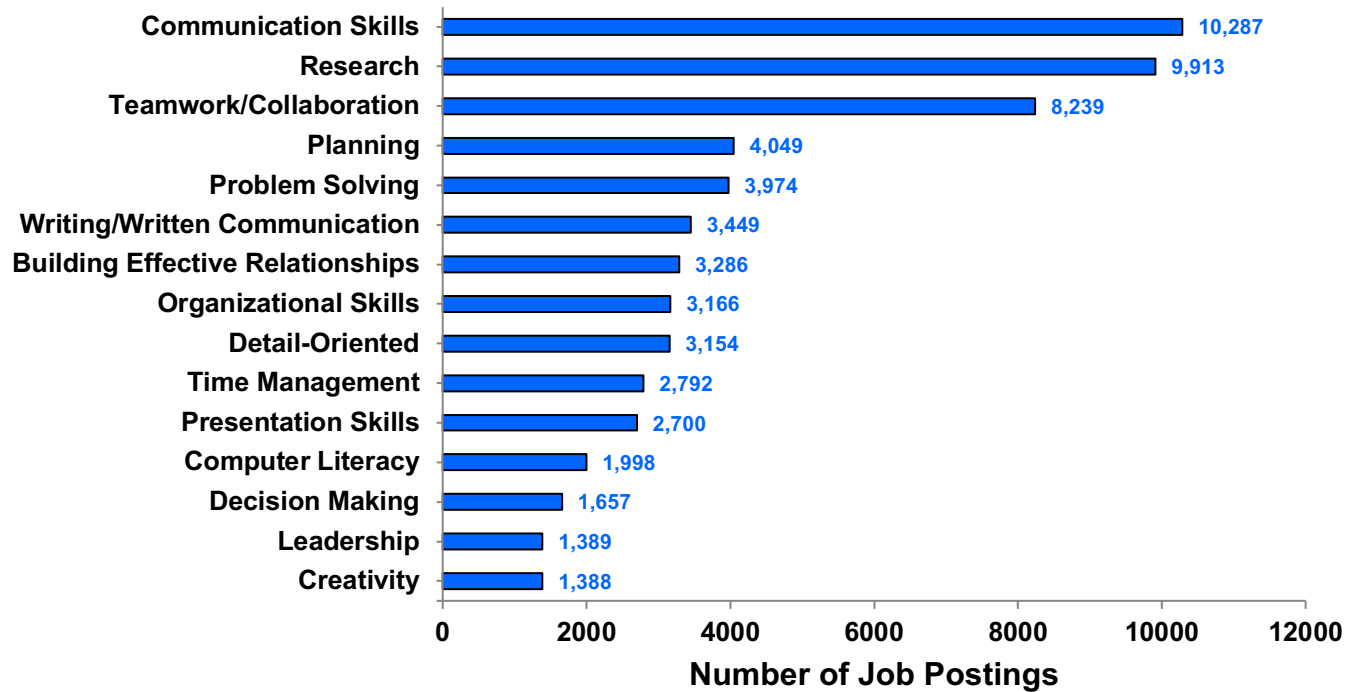
Top Job Titles: Business & Administration 2020



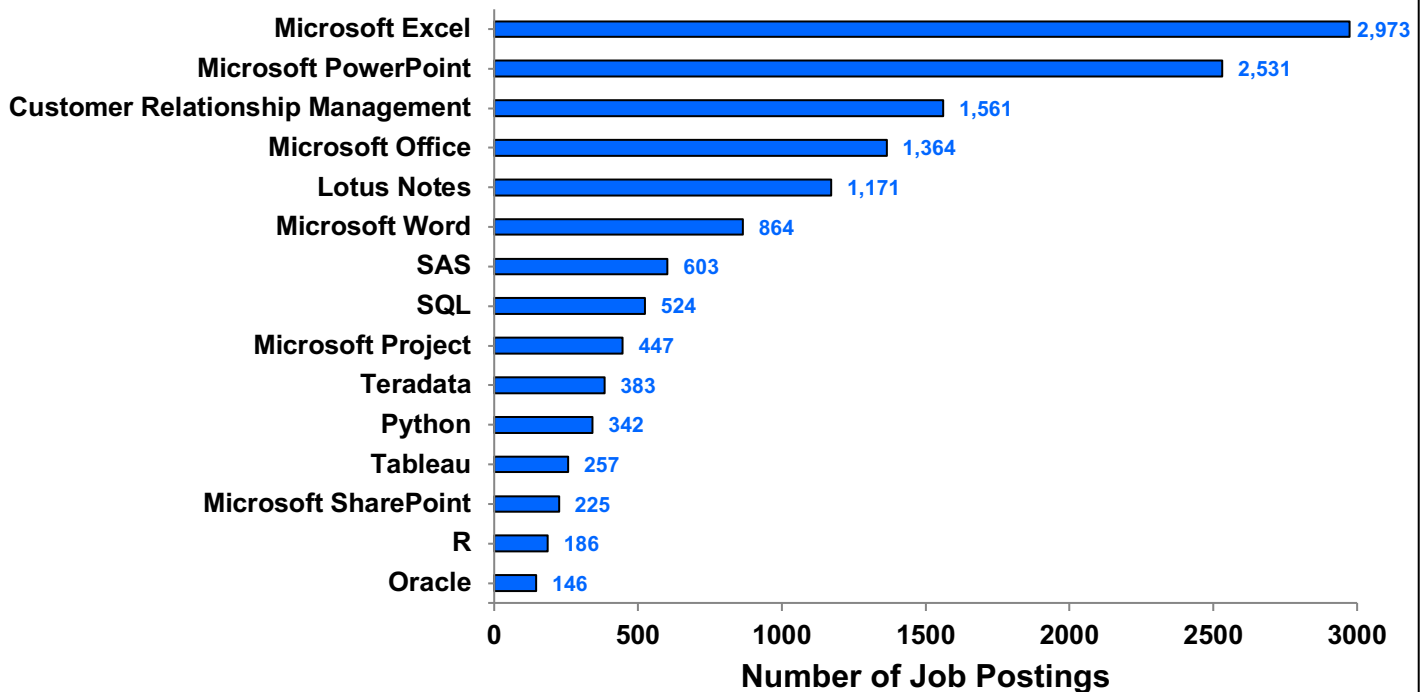
Specialized (Hard) Skills: Business & Administration 2020



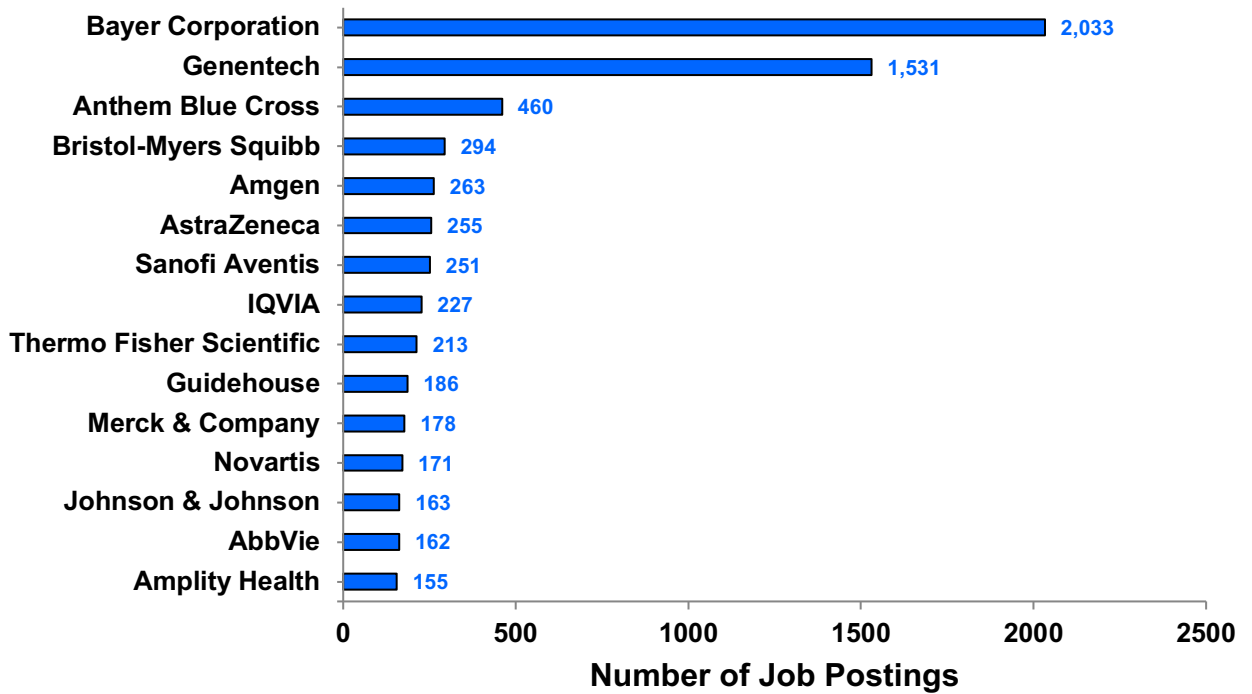
Baseline (Soft) Skills: Business & Administration 2020



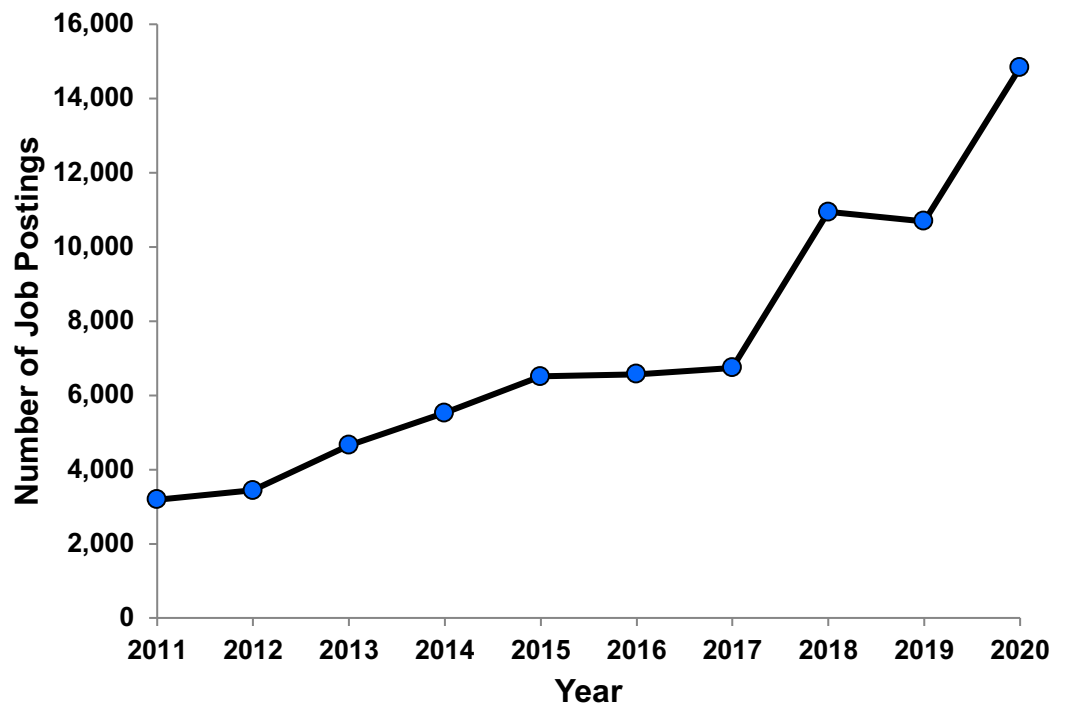
Computer Skills: Business & Administration 2020



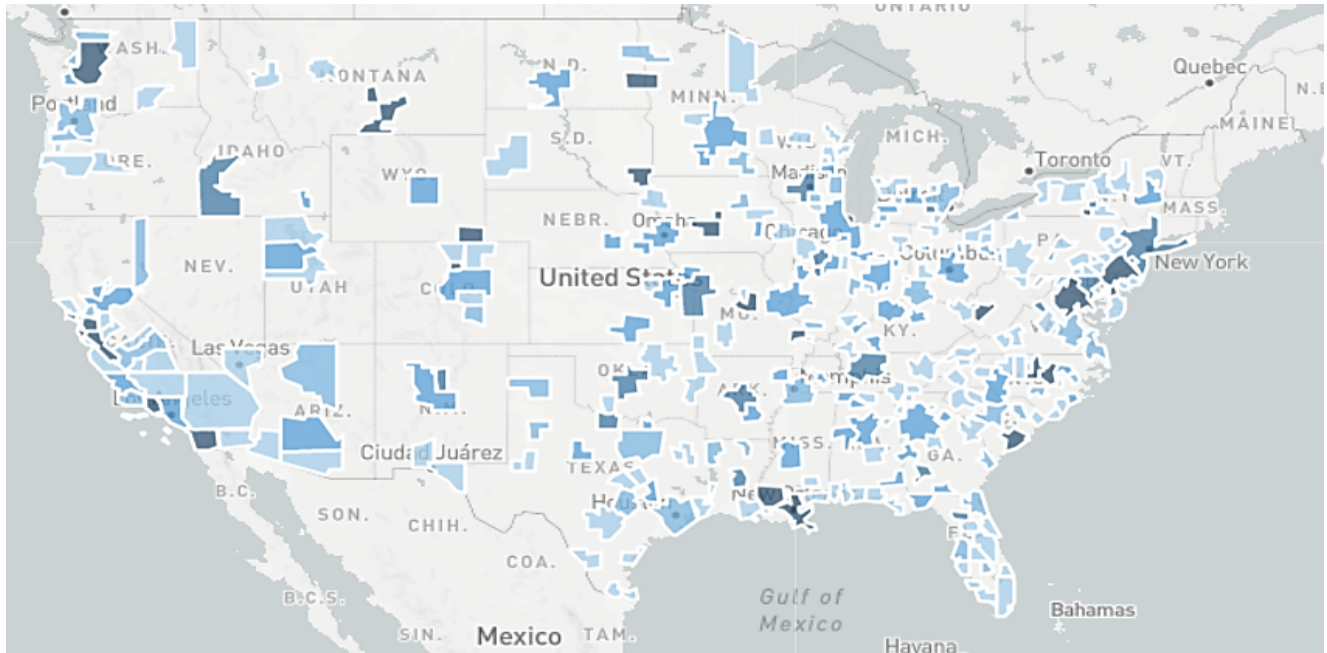
Top Employers: Business & Administration 2020



Job Postings by Year: Business & Administration 2011-2020



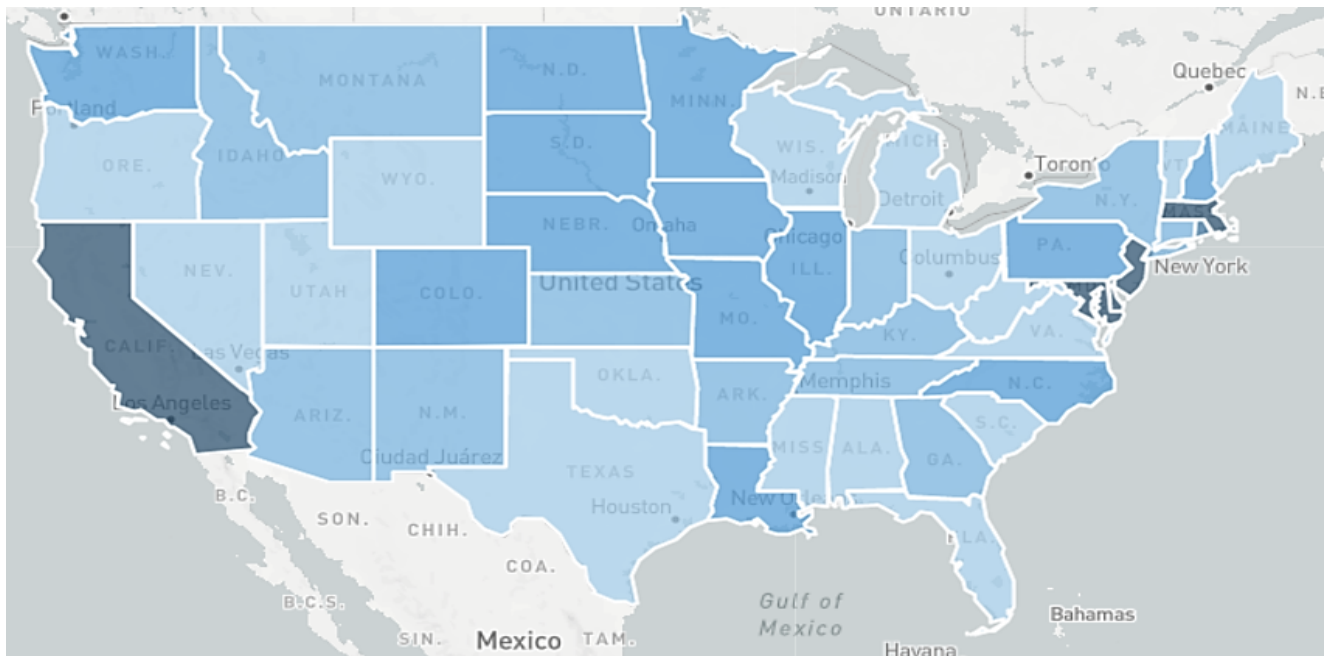
High Demand Areas by MSA: Business & Administration 2020



TOP 15 HIRING REGIONS

Metro Area	Job Postings
Boston-Cambridge-Nashua, MA-NH (Metropolitan NECTA)	1,261
New York-Newark-Jersey City, NY-NJ-PA (Metropolitan Statistical Area)	1,193
San Francisco-Oakland-Hayward, CA (Metropolitan Statistical Area)	1,168
Los Angeles-Long Beach-Anaheim, CA (Metropolitan Statistical Area)	733
Washington-Arlington-Alexandria, DC-VA-MD-WV (Metropolitan Statistical Area)	653
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD (Metropolitan Statistical Area)	617
Chicago-Naperville-Elgin, IL-IN-WI (Metropolitan Statistical Area)	509
San Diego-Carlsbad, CA (Metropolitan Statistical Area)	422
Seattle-Tacoma-Bellevue, WA (Metropolitan Statistical Area)	360
Atlanta-Sandy Springs-Roswell, GA (Metropolitan Statistical Area)	233
Dallas-Fort Worth-Arlington, TX (Metropolitan Statistical Area)	225
Houston-The Woodlands-Sugar Land, TX (Metropolitan Statistical Area)	220
San Jose-Sunnyvale-Santa Clara, CA (Metropolitan Statistical Area)	211
Oxnard-Thousand Oaks-Ventura, CA (Metropolitan Statistical Area)	193
Baltimore-Columbia-Towson, MD (Metropolitan Statistical Area)	190

High Demand Areas by State: Business & Administration 2020



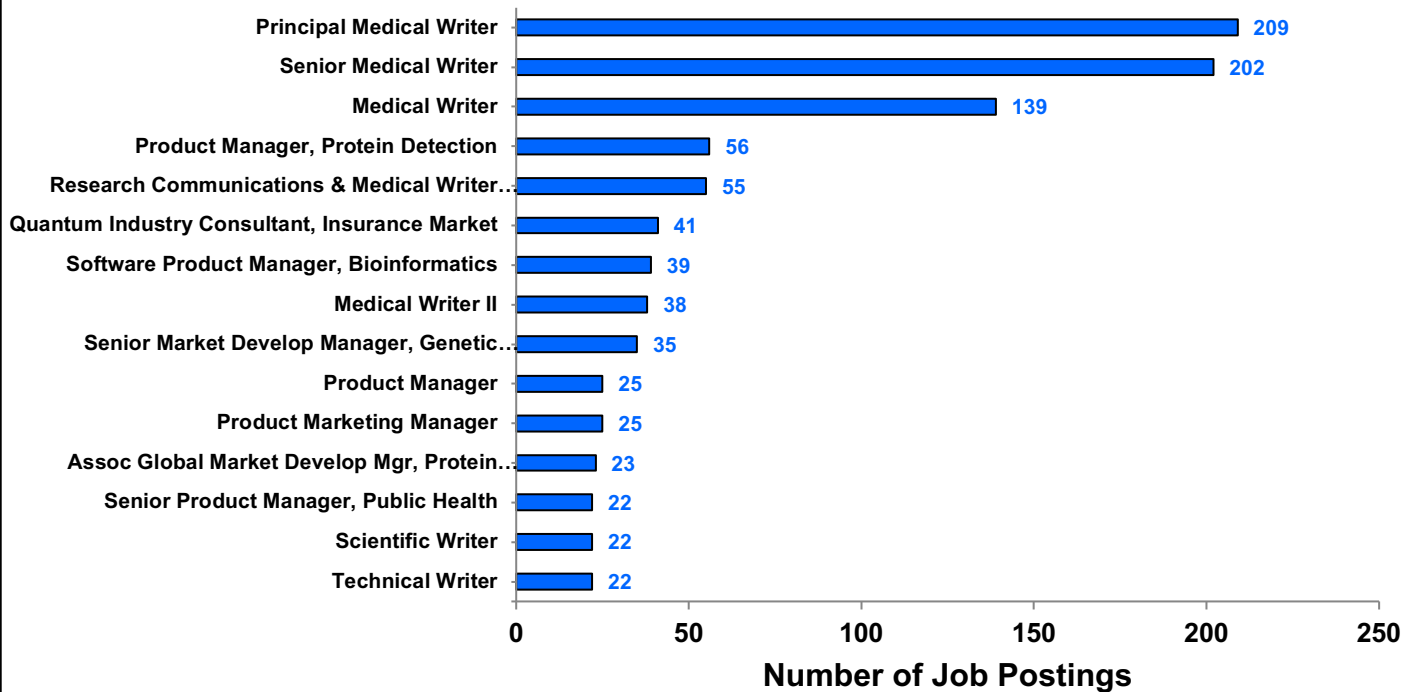
TOP 15 HIRING REGIONS

State	Job Postings
California	3,002
Massachusetts	1,324
New Jersey	821
Texas	721
New York	698
Pennsylvania	680
Illinois	611
Maryland	562
North Carolina	515
Florida	430
Washington	398
Missouri	312
Georgia	310
Ohio	286
Minnesota	245

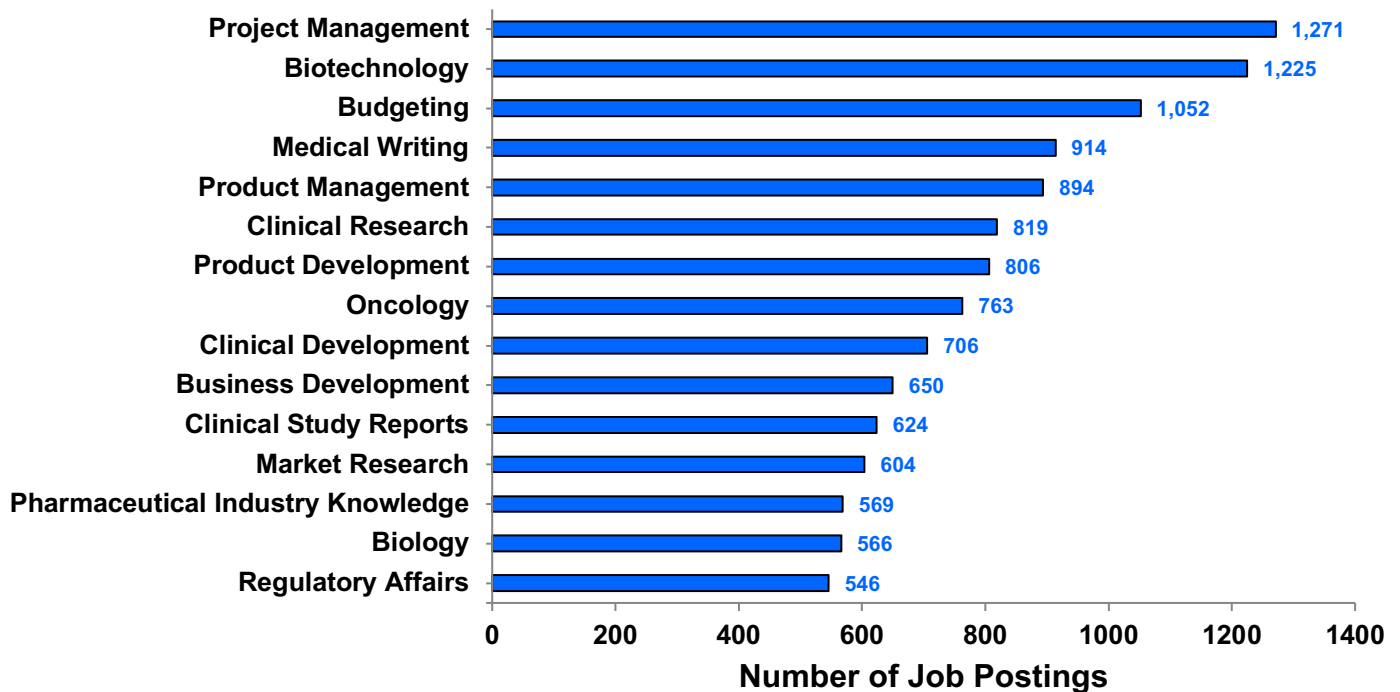
Communication

Number of job postings (nationwide):
4,317

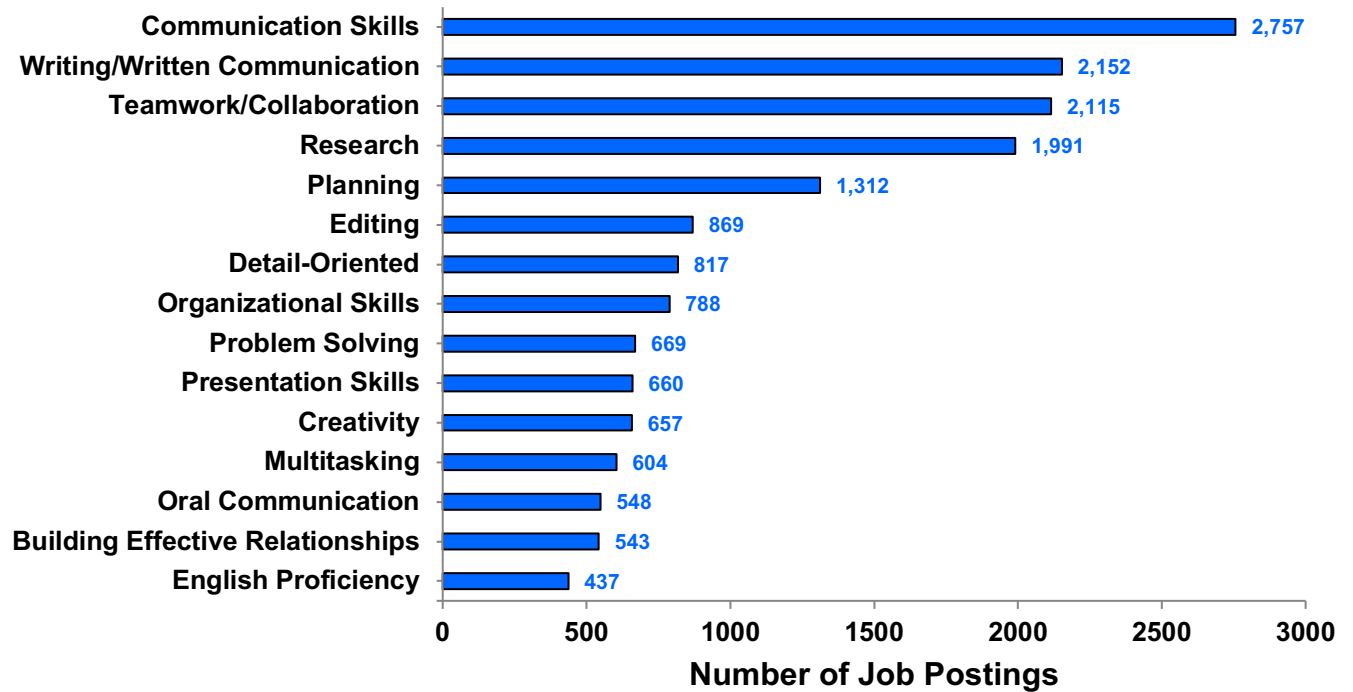
Top Job Titles: Communication 2020



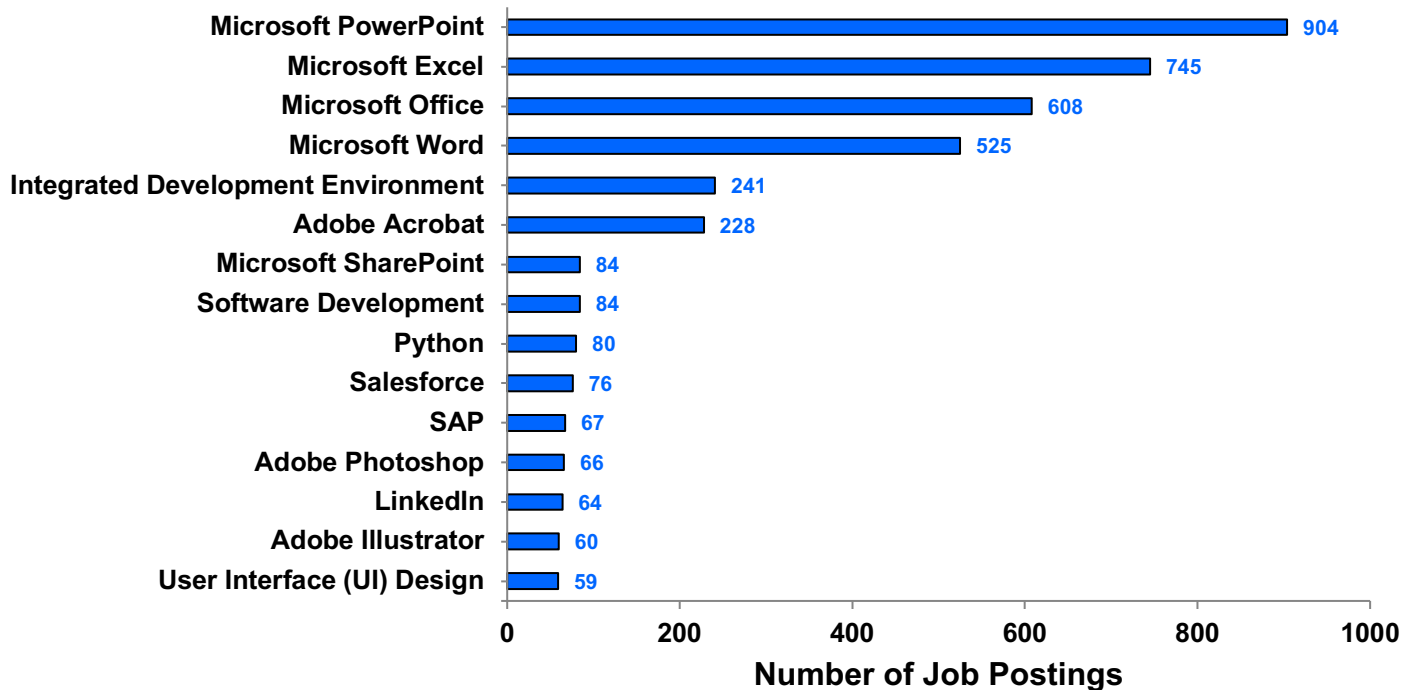
Specialized (Hard) Skills: Communication 2020



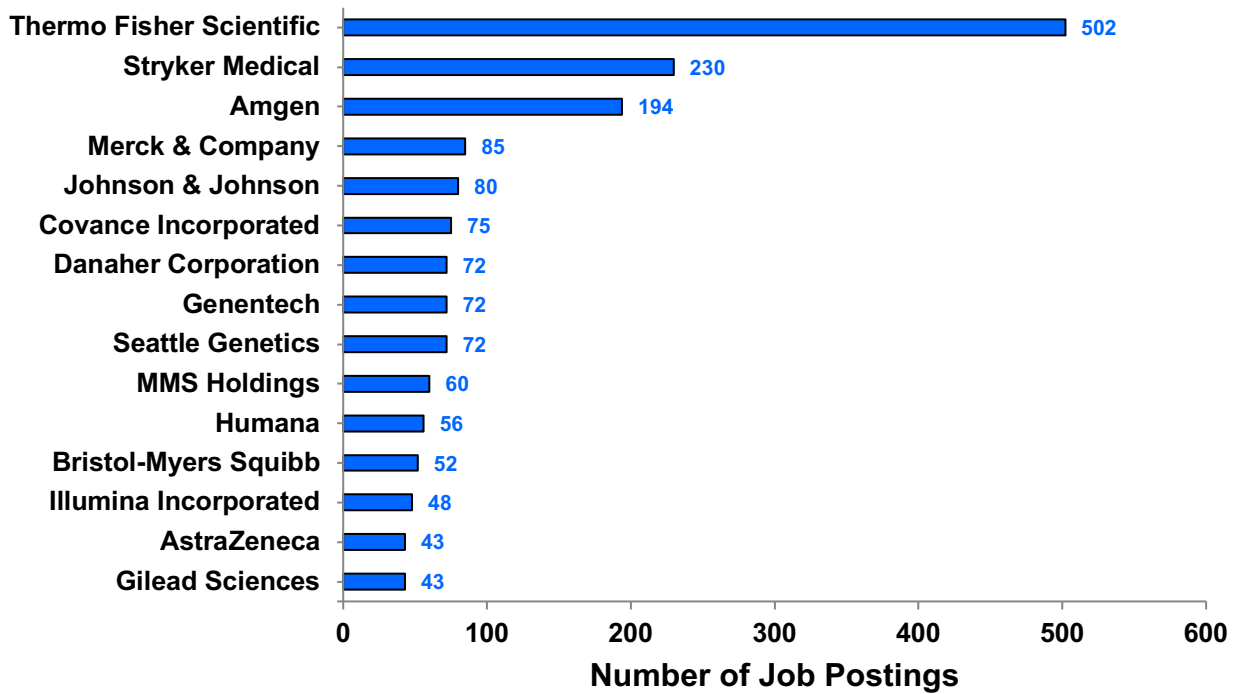
Baseline (Soft) Skills: Communication 2020



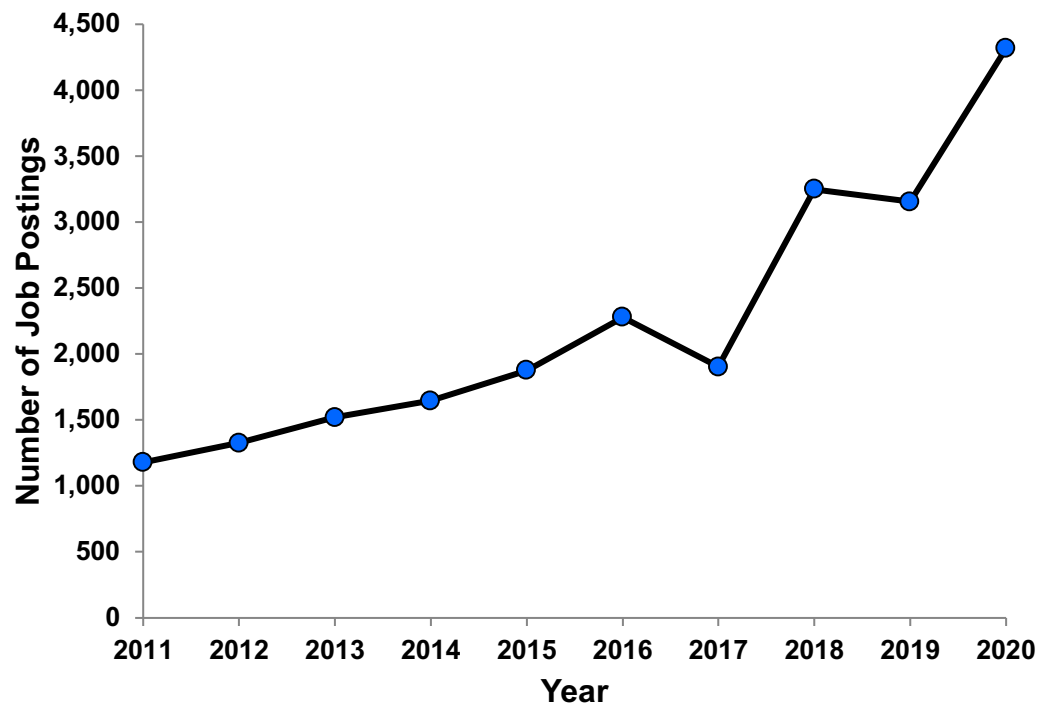
Computer Skills: Communication 2020



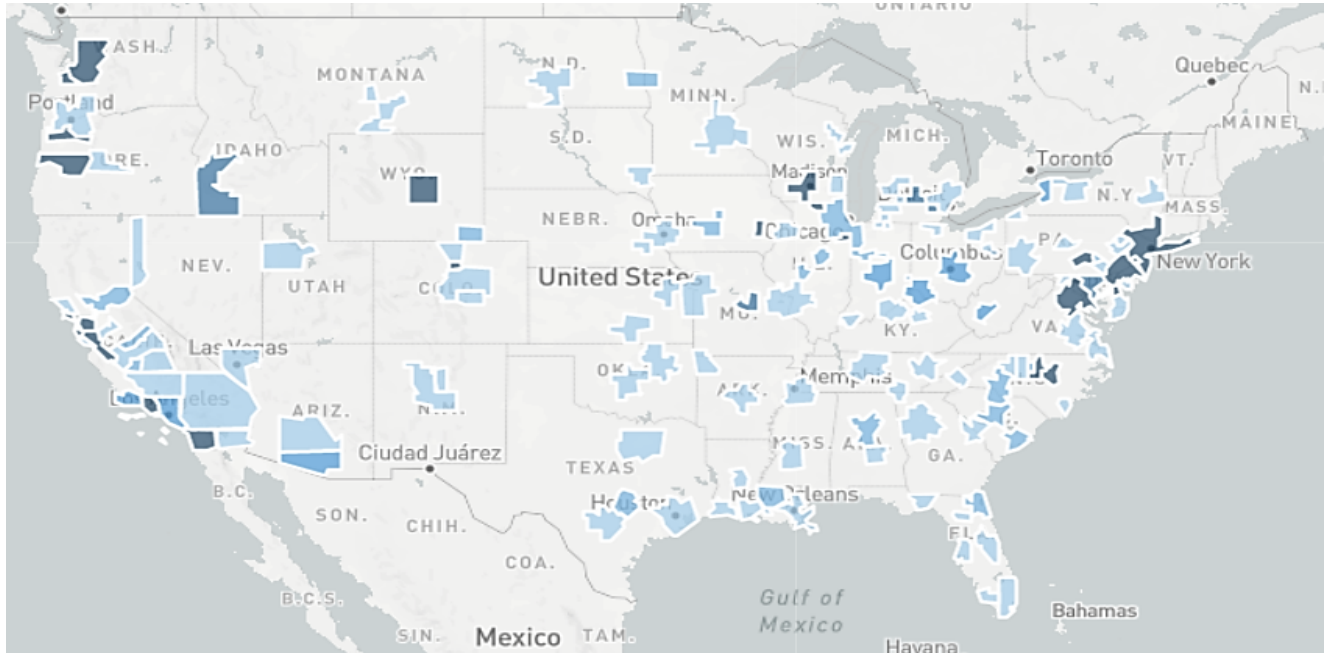
Top Employers: Communication 2020



Job Postings by Year: Communication 2011-2020



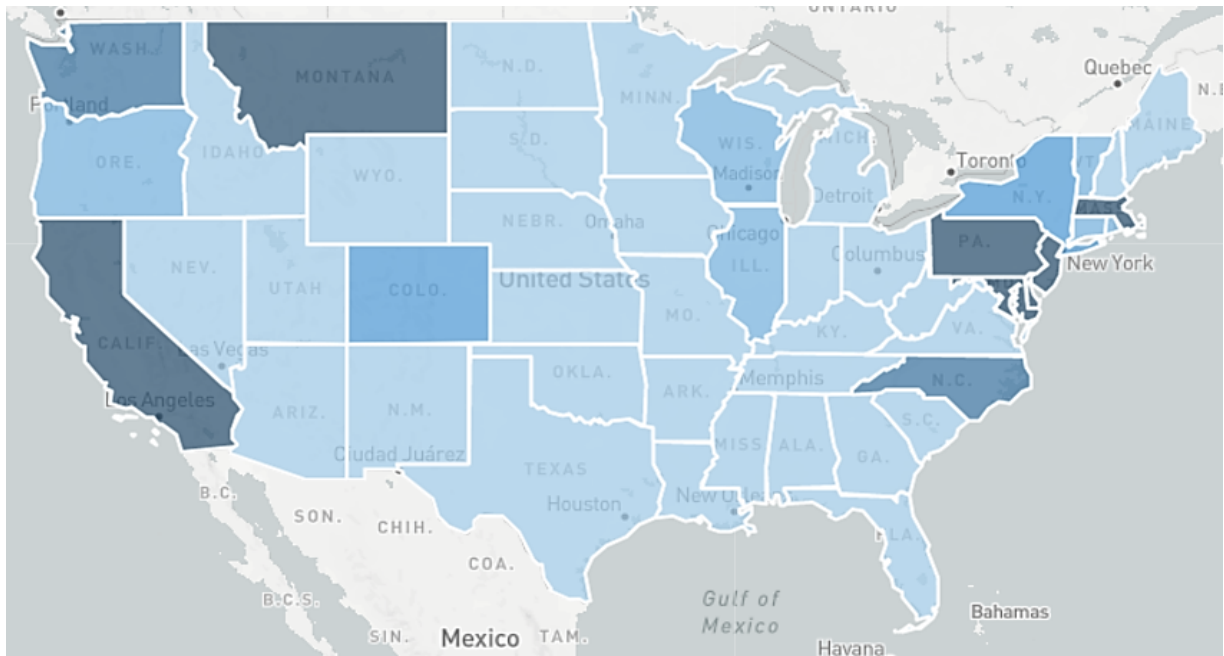
High Demand Areas by MSA: Communication 2020



TOP 15 HIRING REGIONS

Metro Area	Job Postings
Boston-Cambridge-Nashua, MA-NH (Metropolitan NECTA)	535
New York-Newark-Jersey City, NY-NJ-PA (Metropolitan Statistical Area)	484
San Francisco-Oakland-Hayward, CA (Metropolitan Statistical Area)	482
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD (Metropolitan Statistical Area)	276
San Diego-Carlsbad, CA (Metropolitan Statistical Area)	274
Washington-Arlington-Alexandria, DC-VA-MD-WV (Metropolitan Statistical Area)	199
Los Angeles-Long Beach-Anaheim, CA (Metropolitan Statistical Area)	153
Oxnard-Thousand Oaks-Ventura, CA (Metropolitan Statistical Area)	153
Seattle-Tacoma-Bellevue, WA (Metropolitan Statistical Area)	128
Chicago-Naperville-Elgin, IL-IN-WI (Metropolitan Statistical Area)	107
Trenton, NJ (Metropolitan Statistical Area)	100
San Jose-Sunnyvale-Santa Clara, CA (Metropolitan Statistical Area)	99
Durham-Chapel Hill, NC (Metropolitan Statistical Area)	91
Baltimore-Columbia-Towson, MD (Metropolitan Statistical Area)	51
Houston-The Woodlands-Sugar Land, TX (Metropolitan Statistical Area)	46

High Demand Areas by State: Communication 2020



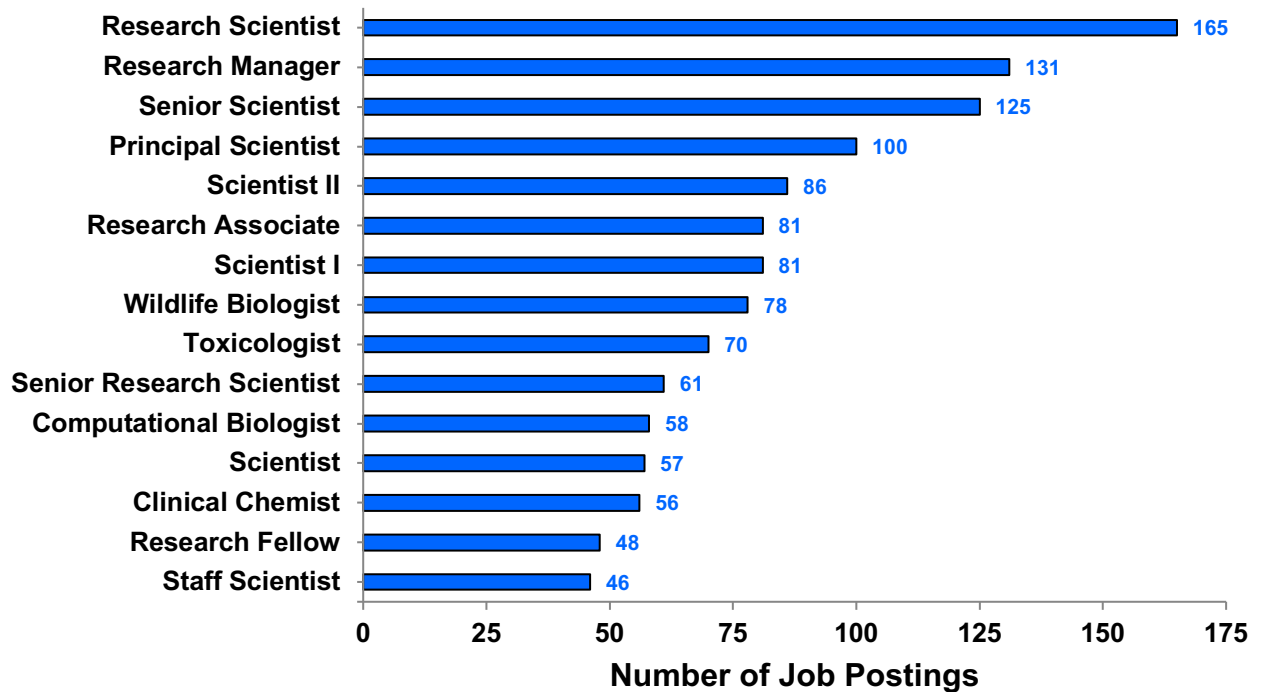
TOP 15 HIRING REGIONS

State	Job Postings
California	1,217
Massachusetts	558
New Jersey	390
Pennsylvania	307
New York	231
Maryland	199
North Carolina	168
Washington	142
Illinois	128
Texas	107
Ohio	76
Colorado	67
Florida	58
Wisconsin	56
Michigan	48

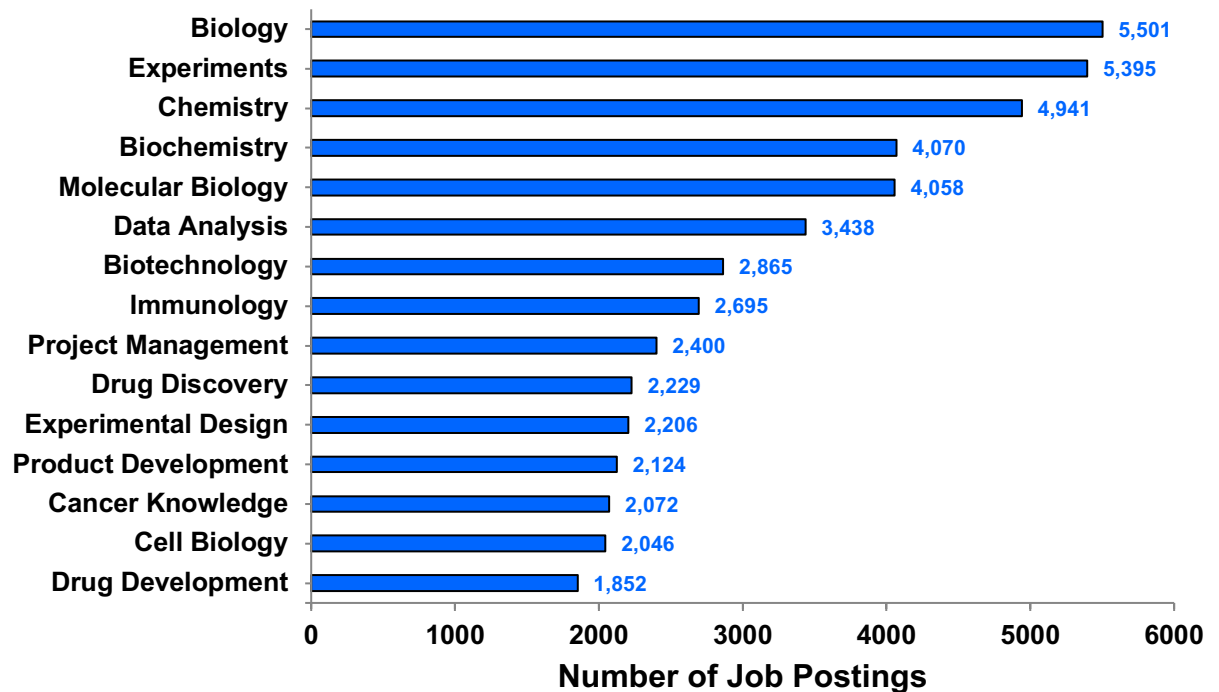
Industry Research

Number of job postings (nationwide):
16,748

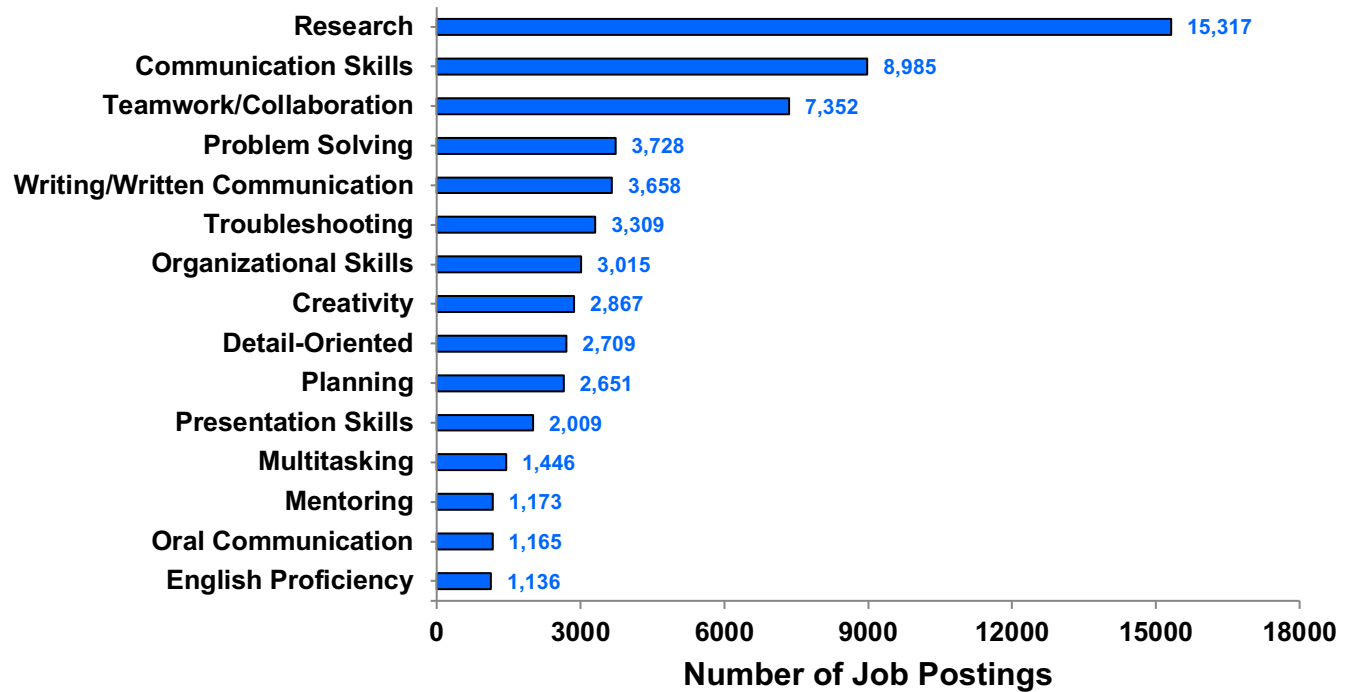
Top Job Titles: Industry Research 2020



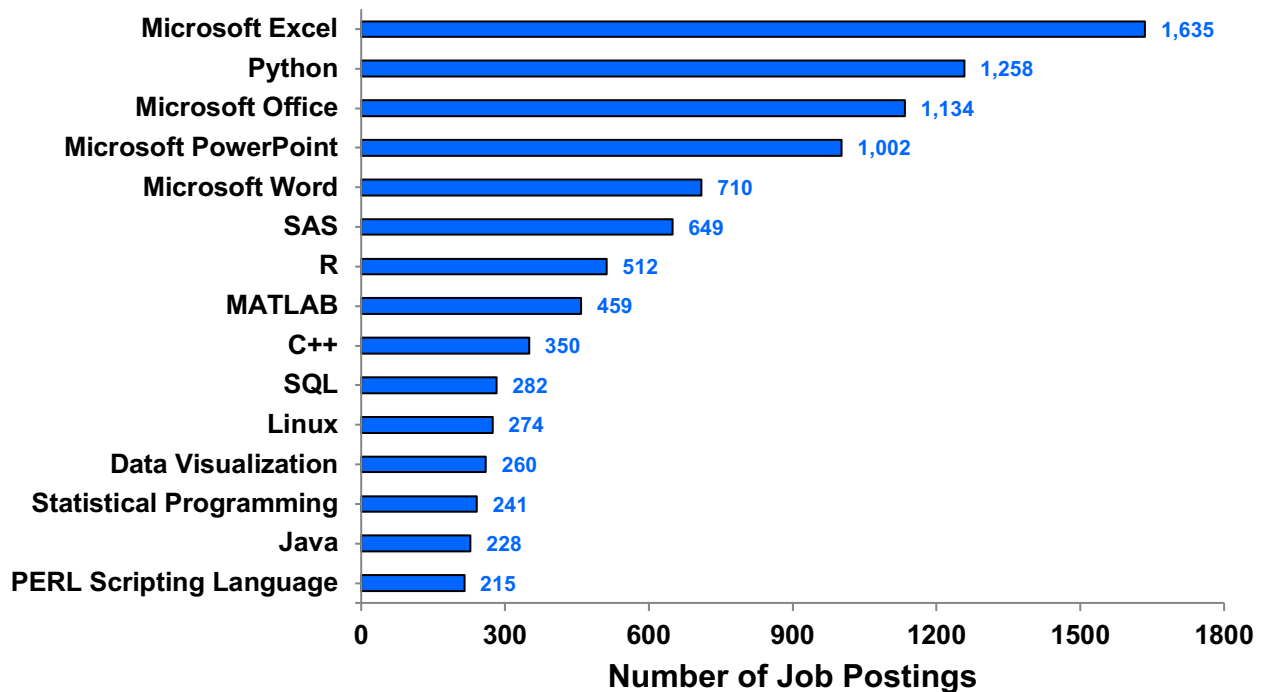
Specialized (Hard) Skills: Industry Research 2020



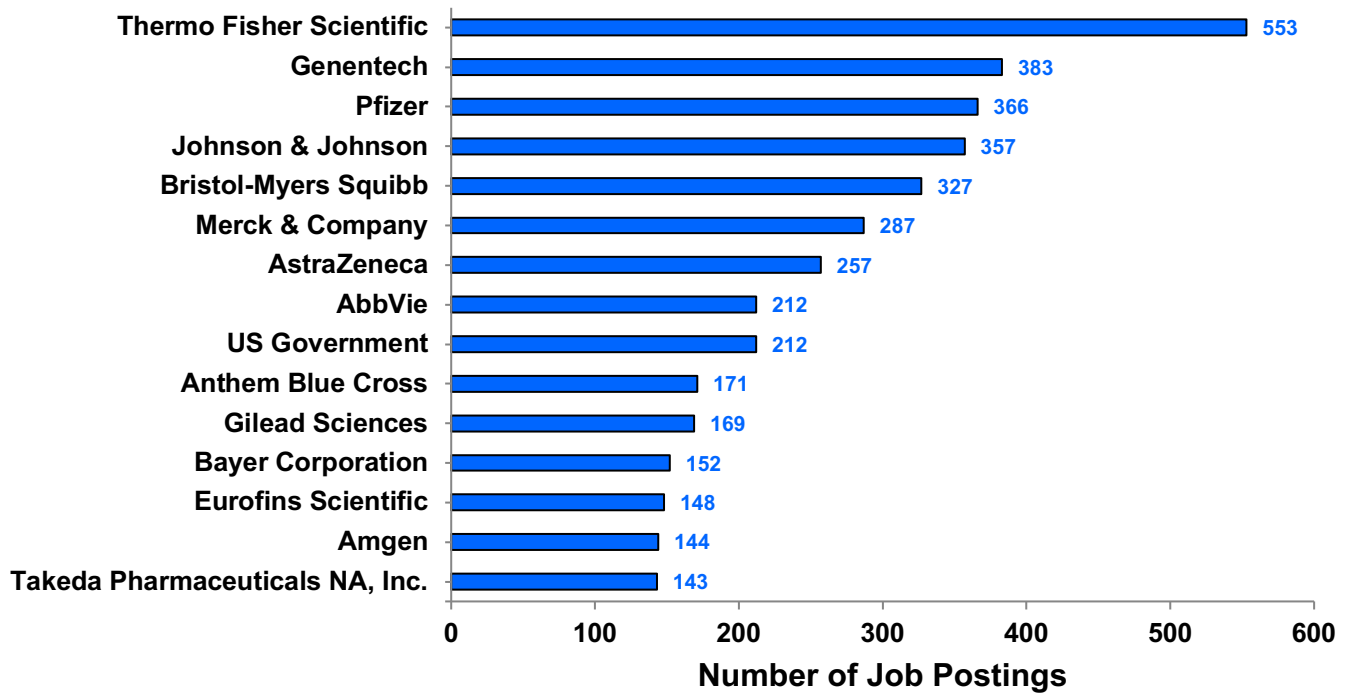
Baseline (Soft) Skills: Industry Research 2020



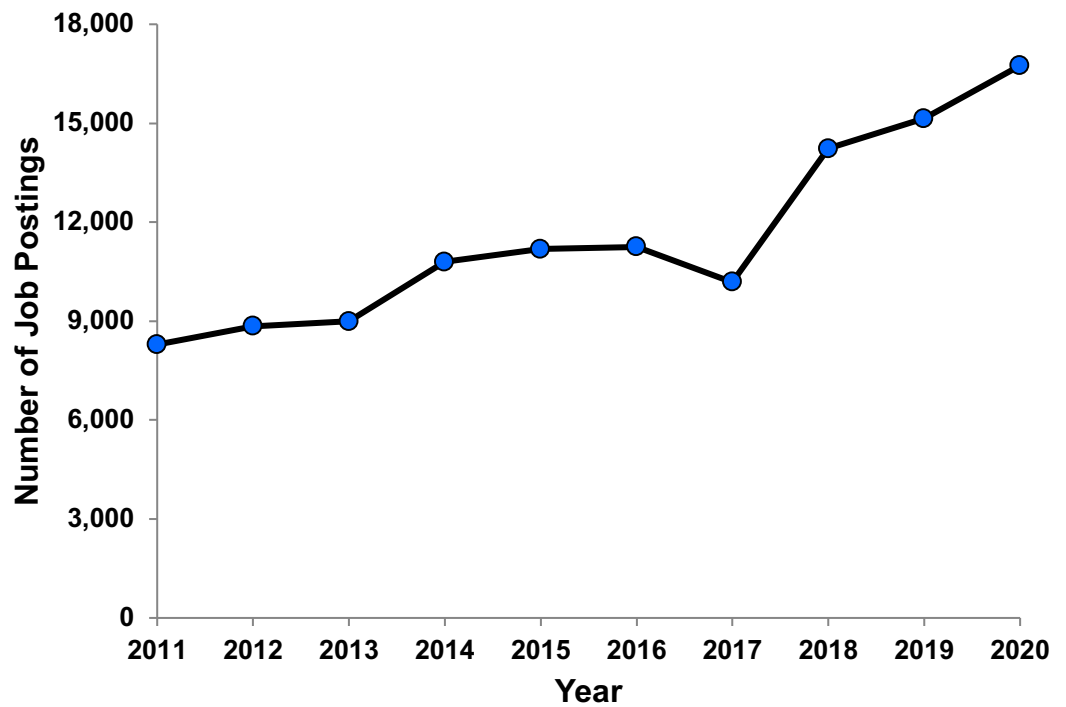
Computer Skills: Industry Research 2020



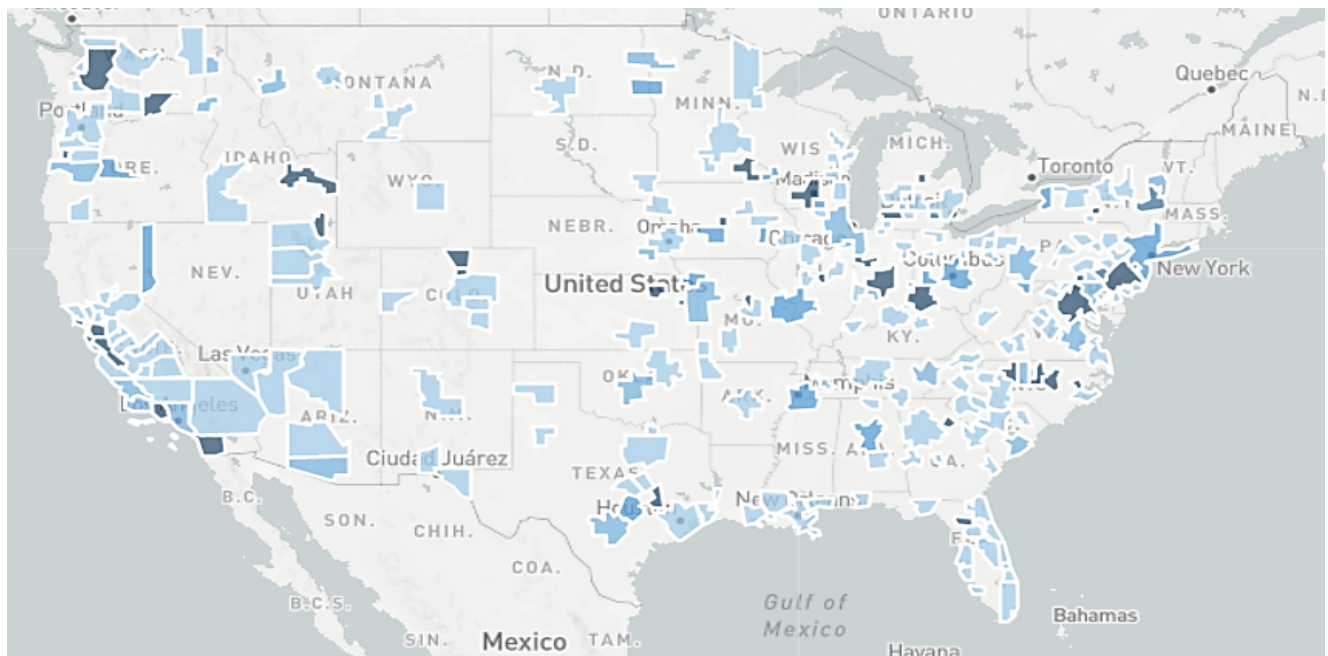
Top Employers: Industry Research 2020



Job Postings by Year: Industry Research 2011-2020



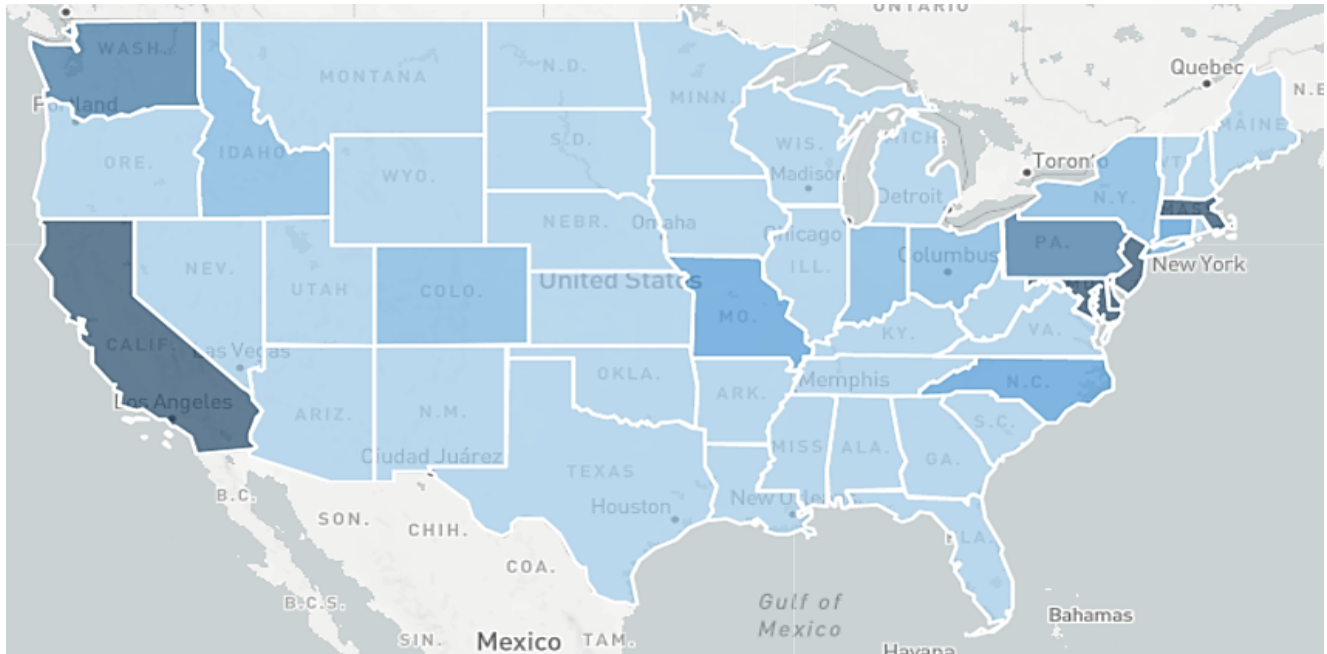
High Demand Areas by MSA: Industry Research 2020



TOP 15 HIRING REGIONS

Metro Area	Job Postings
San Francisco-Oakland-Hayward, CA (Metropolitan Statistical Area)	2,421
Boston-Cambridge-Nashua, MA-NH (Metropolitan NECTA)	2,295
Washington-Arlington-Alexandria, DC-VA-MD-WV (Metropolitan Statistical Area)	1,247
San Diego-Carlsbad, CA (Metropolitan Statistical Area)	1,215
New York-Newark-Jersey City, NY-NJ-PA (Metropolitan Statistical Area)	1,124
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD (Metropolitan Statistical Area)	825
Los Angeles-Long Beach-Anaheim, CA (Metropolitan Statistical Area)	507
Seattle-Tacoma-Bellevue, WA (Metropolitan Statistical Area)	397
Chicago-Naperville-Elgin, IL-IN-WI (Metropolitan Statistical Area)	354
San Jose-Sunnyvale-Santa Clara, CA (Metropolitan Statistical Area)	285
Durham-Chapel Hill, NC (Metropolitan Statistical Area)	260
Indianapolis-Carmel-Anderson, IN (Metropolitan Statistical Area)	210
Cincinnati, OH-KY-IN (Metropolitan Statistical Area)	192
St. Louis, MO-IL (Metropolitan Statistical Area)	164
Trenton, NJ (Metropolitan Statistical Area)	154

High Demand Areas by State: Industry Research 2020



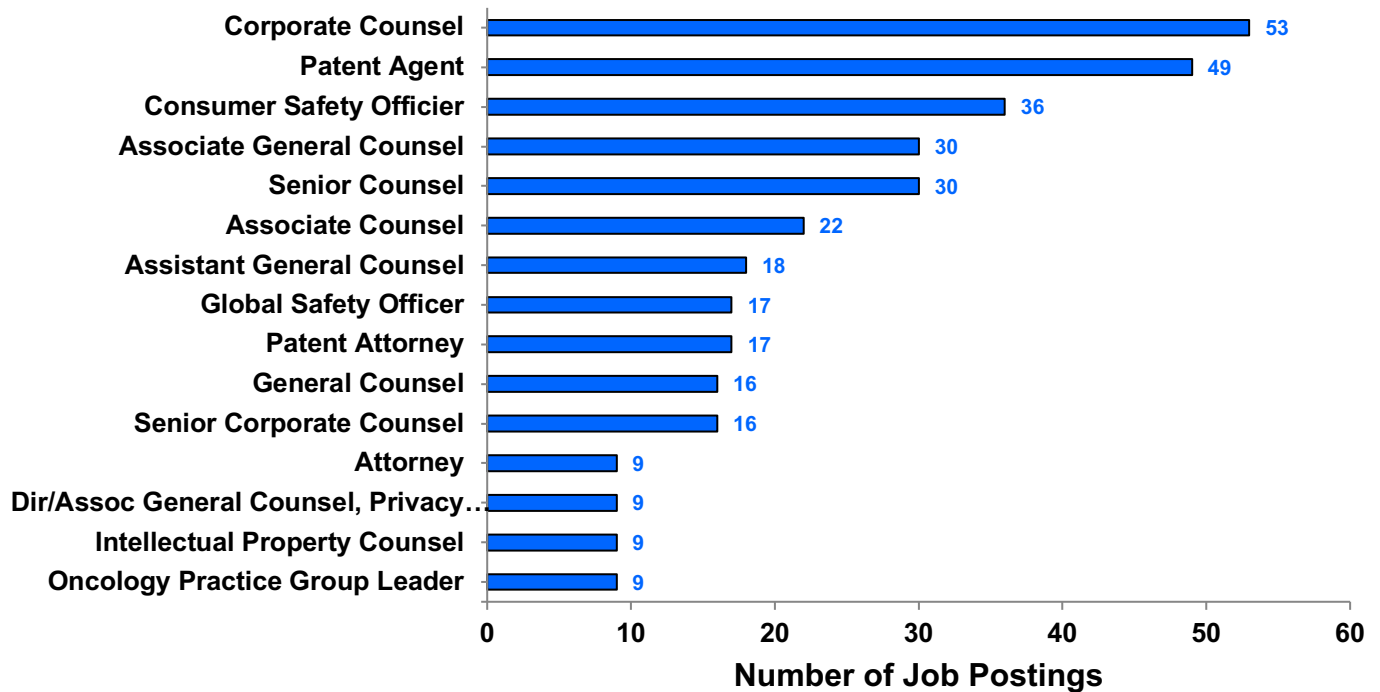
TOP 15 HIRING REGIONS

State	Job Postings
California	4,761
Massachusetts	2,425
Maryland	1,113
Pennsylvania	863
New Jersey	751
New York	738
North Carolina	578
Washington	504
Texas	496
Ohio	471
Illinois	403
Missouri	272
Indiana	260
Virginia	236
Florida	229

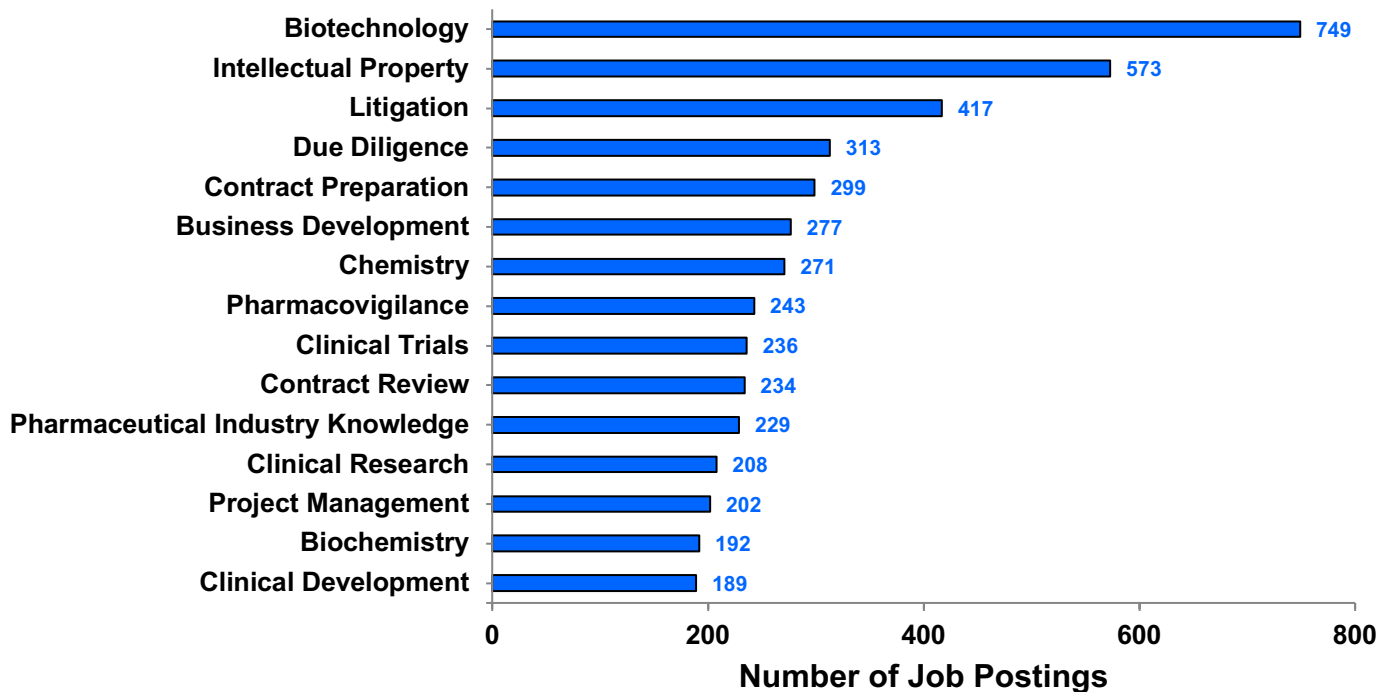
Law

Number of job postings (nationwide):
1,823

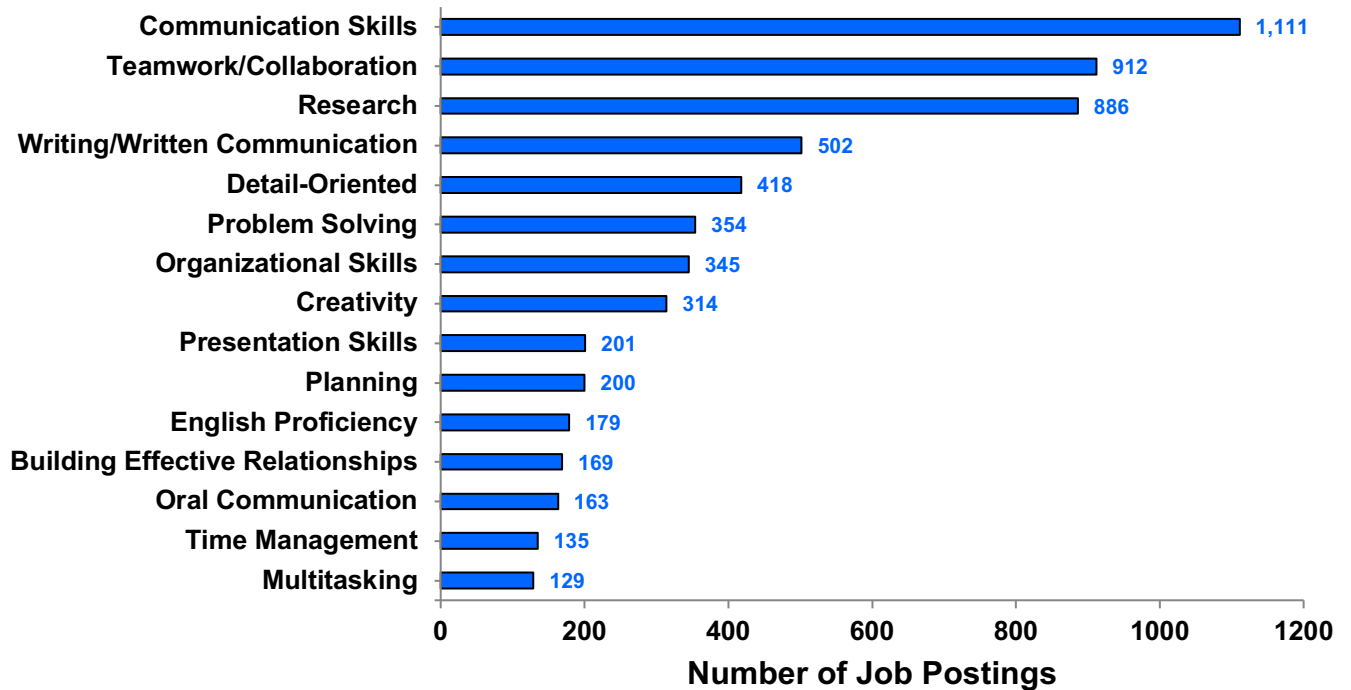
Top Job Titles: Law 2020



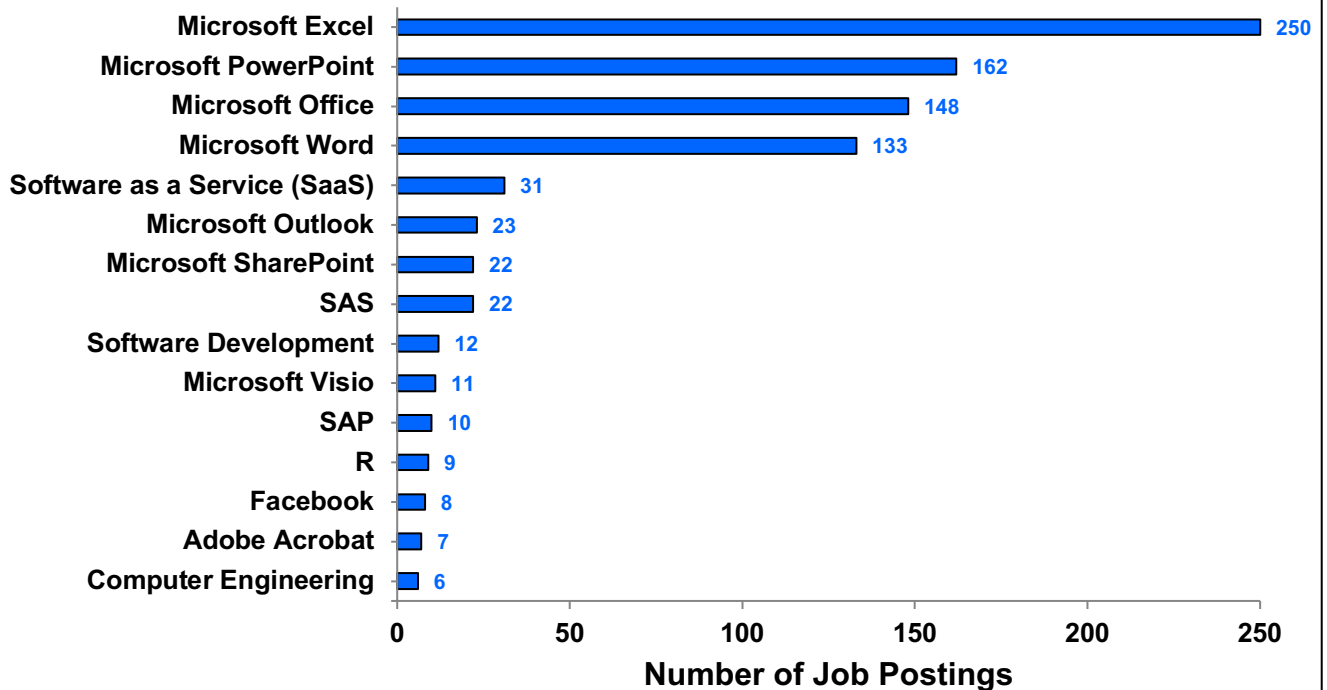
Specialized (Hard) Skills: Law 2020



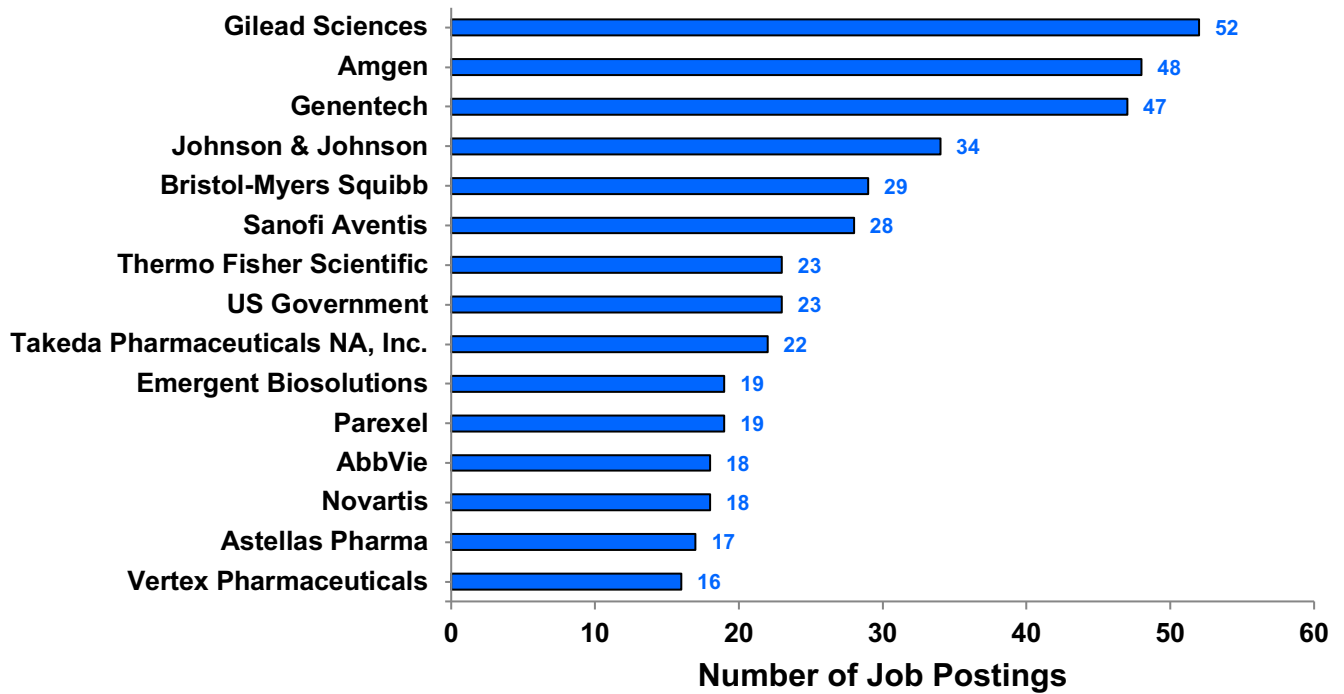
Baseline (Soft) Skills: Law 2020



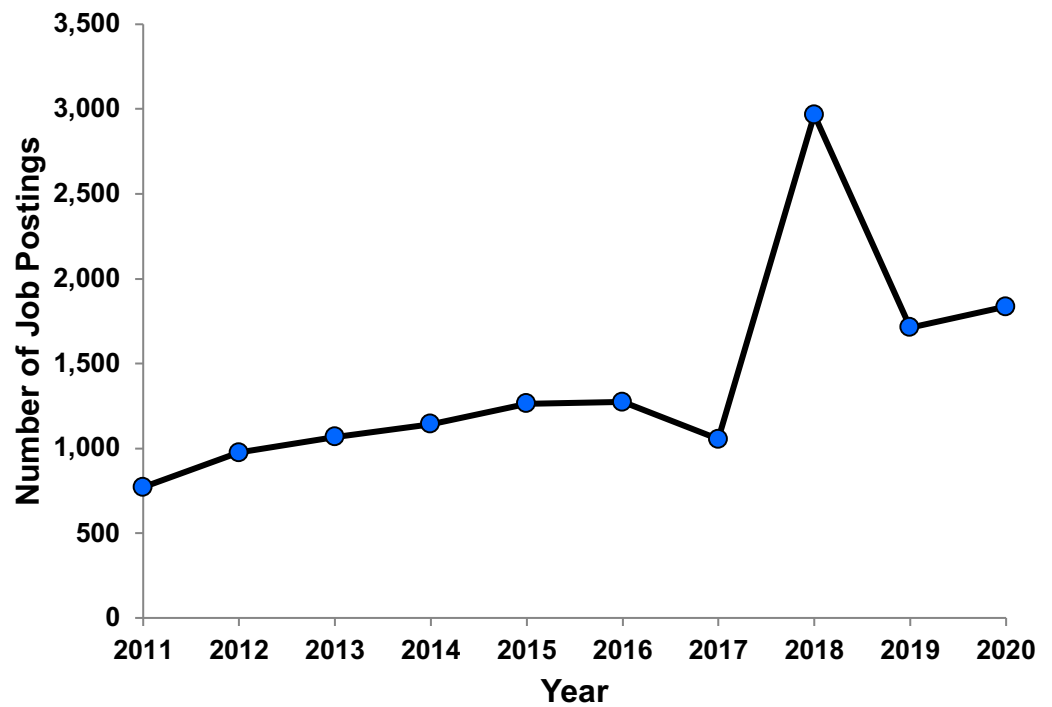
Computer Skills: Law 2020



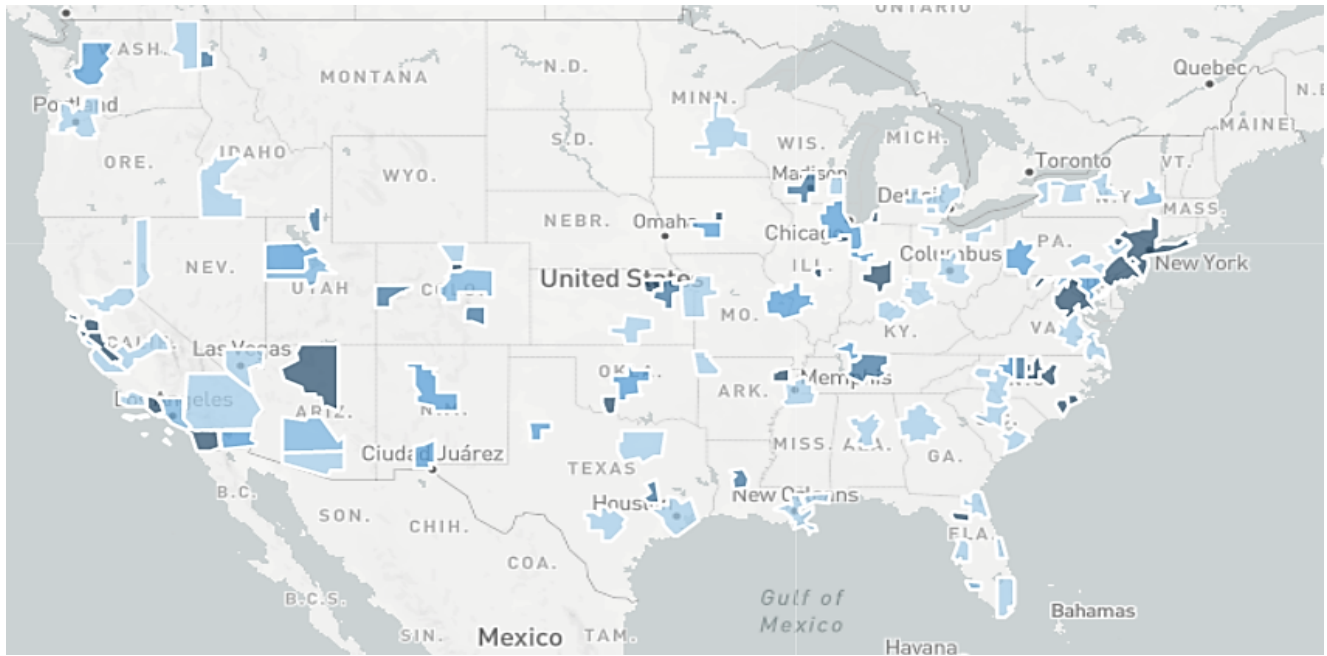
Top Employers: Law 2020



Job Postings by Year: Law 2011-2020



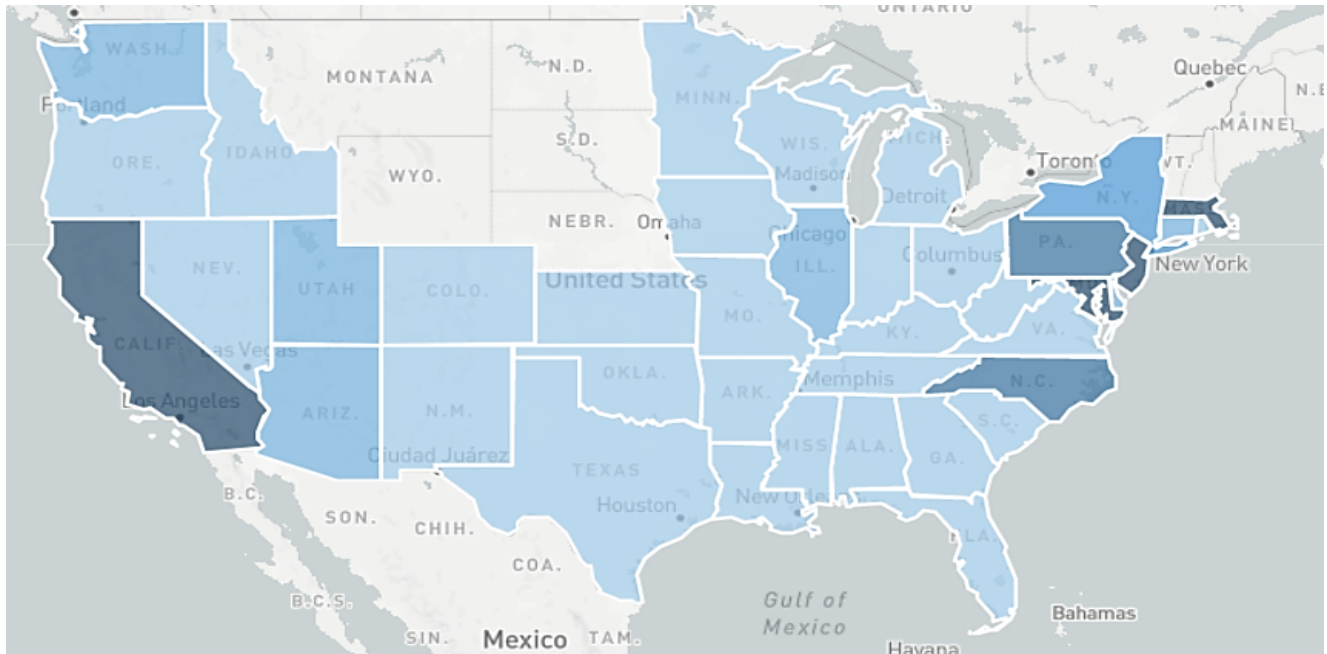
High Demand Areas by MSA: Law 2020



TOP 15 HIRING REGIONS

Metro Area	Job Postings
Boston-Cambridge-Nashua, MA-NH (Metropolitan NECTA)	325
San Francisco-Oakland-Hayward, CA (Metropolitan Statistical Area)	304
New York-Newark-Jersey City, NY-NJ-PA (Metropolitan Statistical Area)	216
San Diego-Carlsbad, CA (Metropolitan Statistical Area)	110
Washington-Arlington-Alexandria, DC-VA-MD-WV (Metropolitan Statistical Area)	89
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD (Metropolitan Statistical Area)	86
Chicago-Naperville-Elgin, IL-IN-WI (Metropolitan Statistical Area)	54
Los Angeles-Long Beach-Anaheim, CA (Metropolitan Statistical Area)	54
Oxnard-Thousand Oaks-Ventura, CA (Metropolitan Statistical Area)	49
San Jose-Sunnyvale-Santa Clara, CA (Metropolitan Statistical Area)	40
Trenton, NJ (Metropolitan Statistical Area)	32
Durham-Chapel Hill, NC (Metropolitan Statistical Area)	28
Seattle-Tacoma-Bellevue, WA (Metropolitan Statistical Area)	25
Indianapolis-Carmel-Anderson, IN (Metropolitan Statistical Area)	20
Baltimore-Columbia-Towson, MD (Metropolitan Statistical Area)	16

High Demand Areas by State: Law 2020



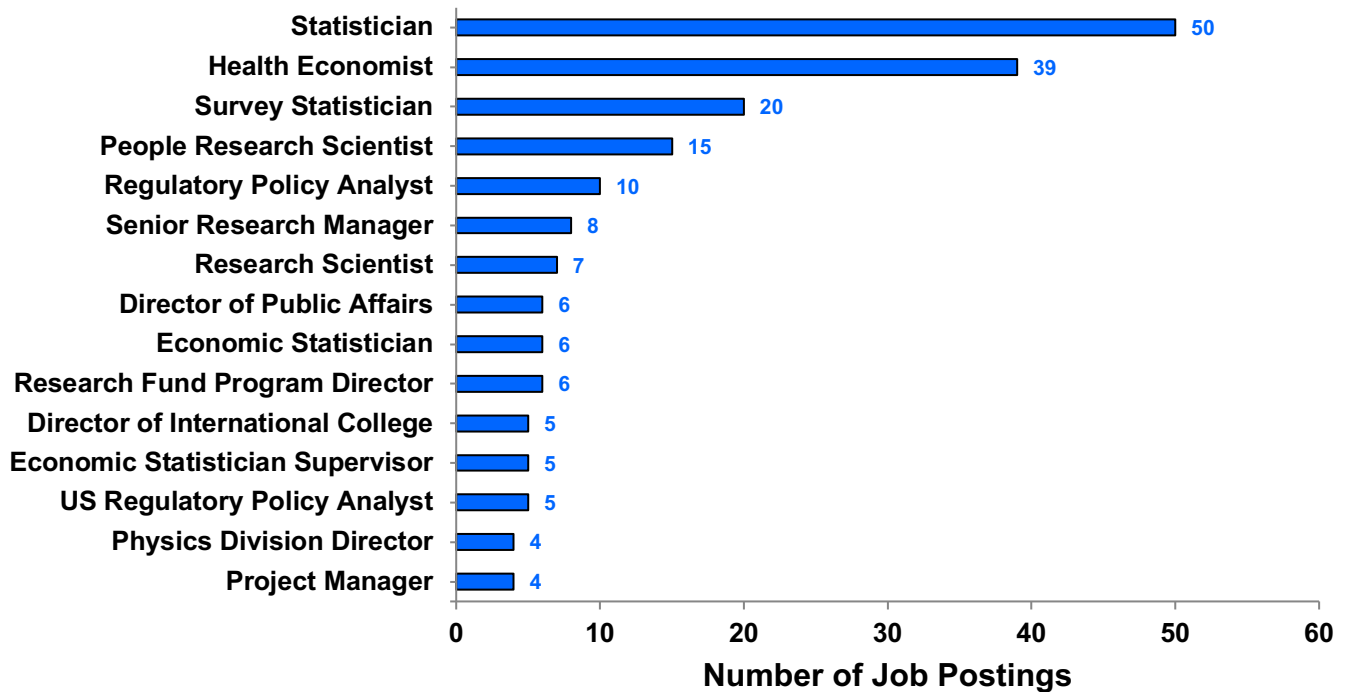
TOP 15 HIRING REGIONS

State	Job Postings
California	568
Massachusetts	336
New Jersey	146
New York	111
Pennsylvania	101
North Carolina	69
Maryland	67
Illinois	60
District of Columbia	26
Texas	26
Washington	26
Florida	23
Arizona	22
Indiana	21
Colorado	19

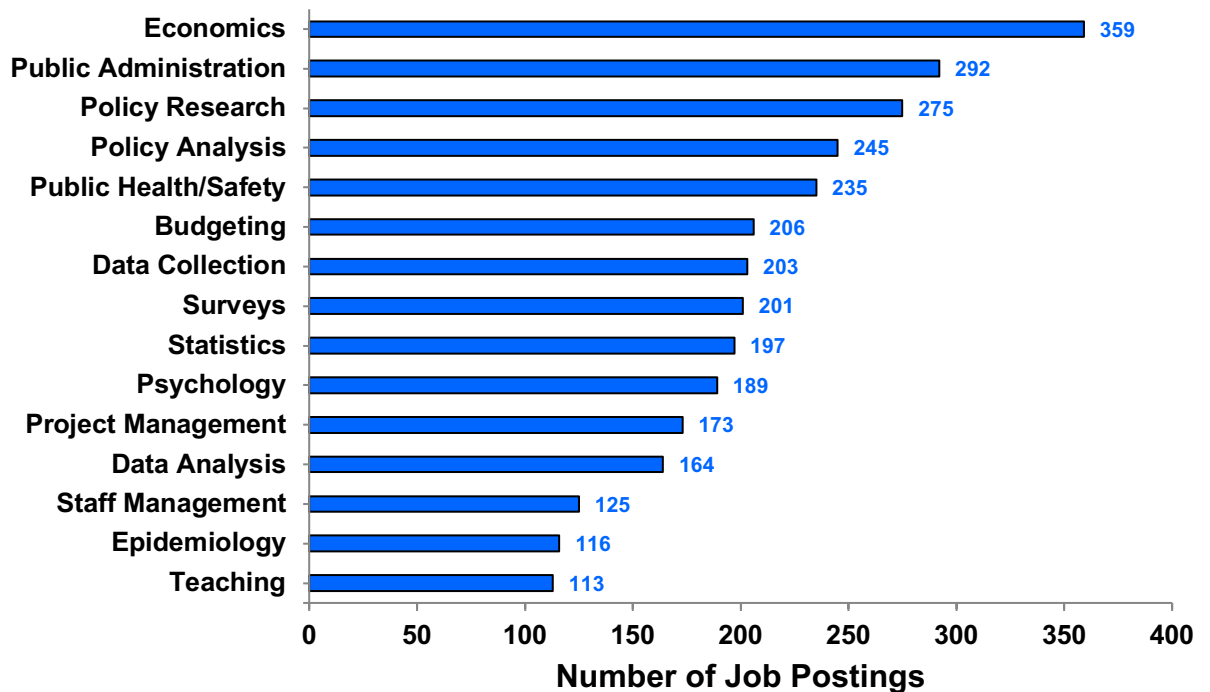
Policy

Number of job postings (nationwide):
838

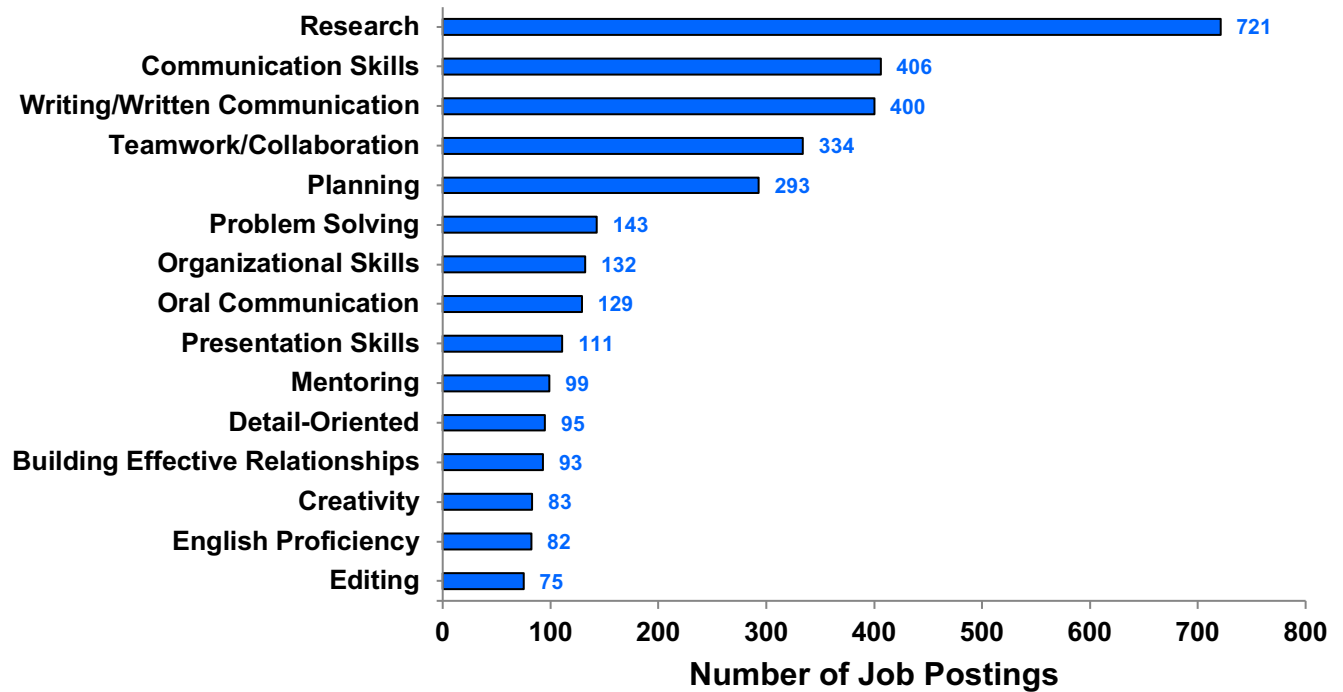
Top Job Titles: Policy 2020



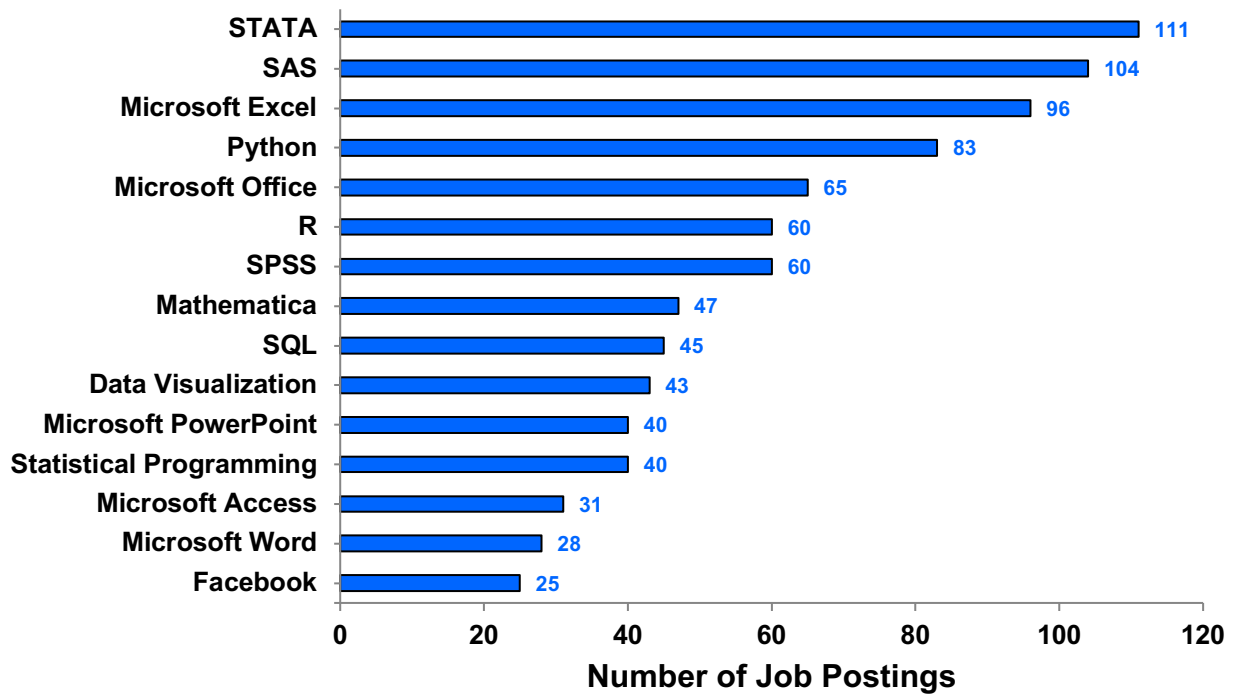
Specialized (Hard) Skills: Policy 2020



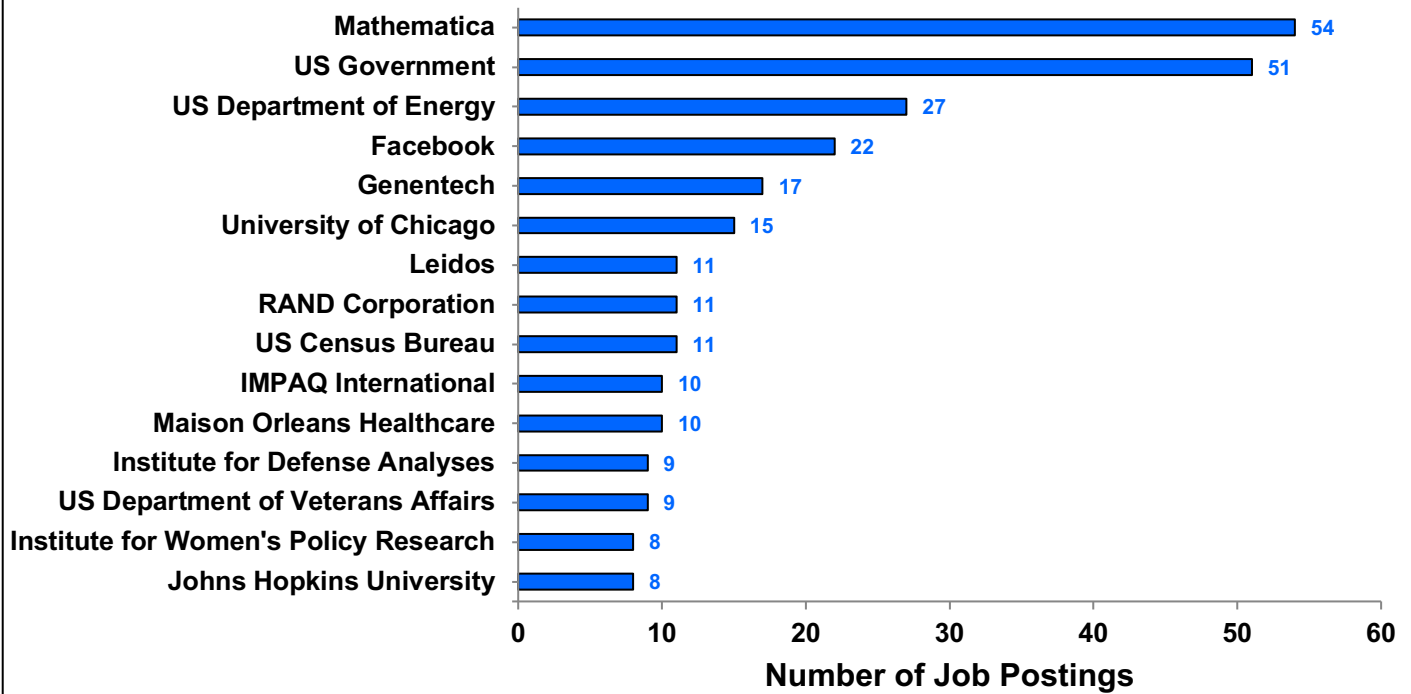
Baseline (Soft) Skills: Policy 2020



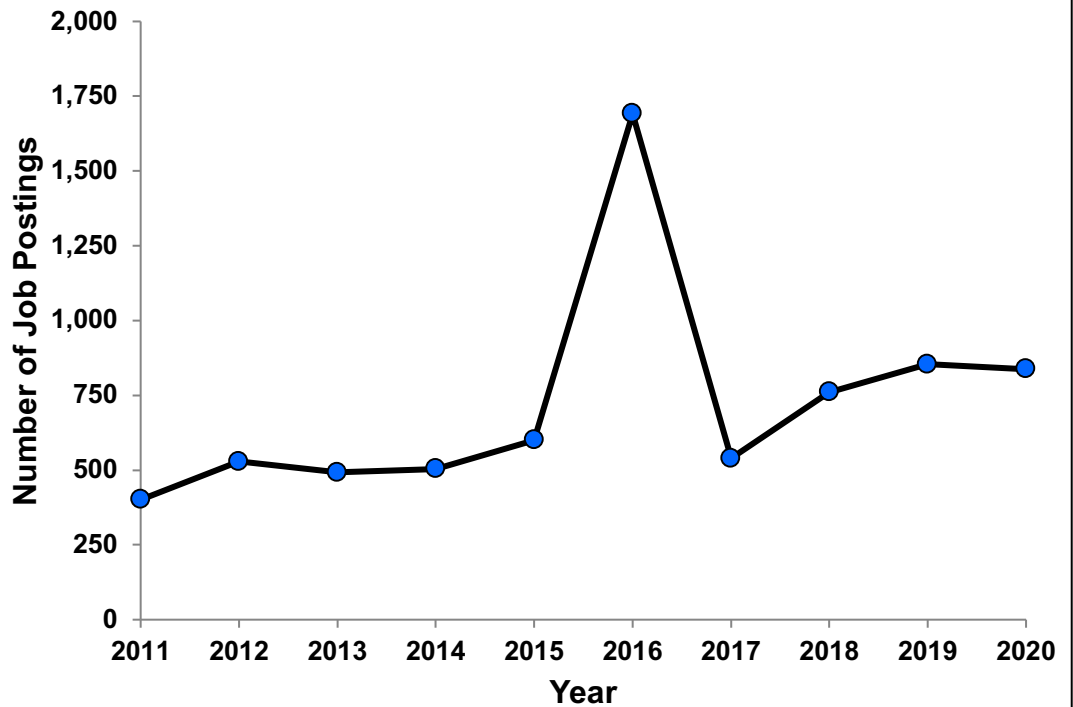
Computer Skills: Policy 2020



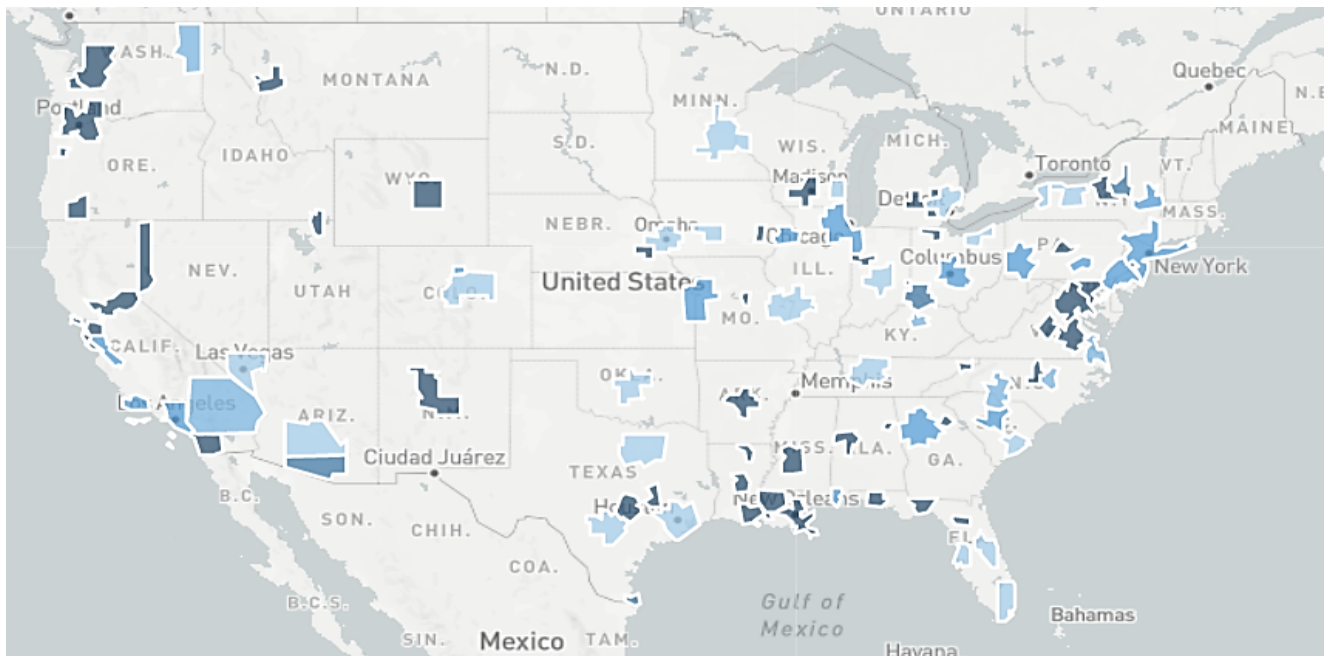
Top Employers: Policy 2020



Job Postings by Year: Policy 2020



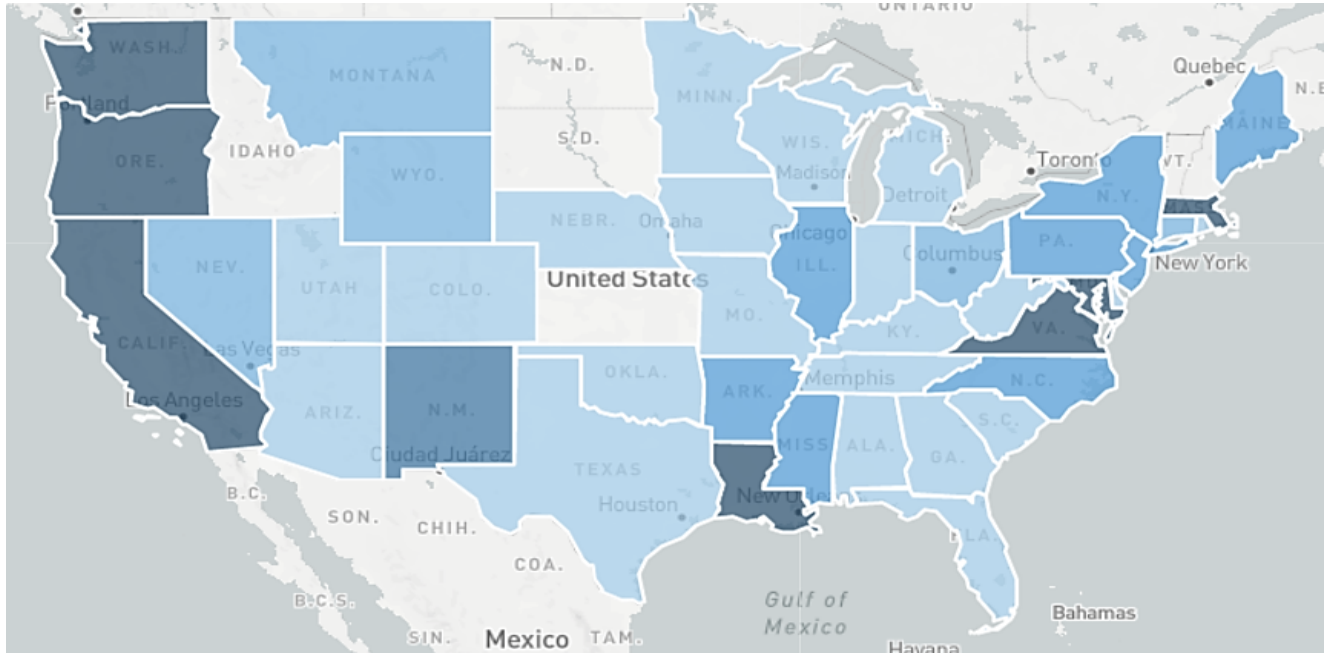
High Demand Areas by MSA: Policy 2020



TOP 15 HIRING REGIONS

Metro Area	Job Postings
Washington-Arlington-Alexandria, DC-VA-MD-WV (Metropolitan Statistical Area)	159
San Francisco-Oakland-Hayward, CA (Metropolitan Statistical Area)	61
New York-Newark-Jersey City, NY-NJ-PA (Metropolitan Statistical Area)	50
Los Angeles-Long Beach-Anaheim, CA (Metropolitan Statistical Area)	36
Boston-Cambridge-Nashua, MA-NH (Metropolitan NECTA)	34
Chicago-Naperville-Elgin, IL-IN-WI (Metropolitan Statistical Area)	29
Baltimore-Columbia-Towson, MD (Metropolitan Statistical Area)	27
Seattle-Tacoma-Bellevue, WA (Metropolitan Statistical Area)	26
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD (Metropolitan Statistical Area)	16
San Diego-Carlsbad, CA (Metropolitan Statistical Area)	16
Atlanta-Sandy Springs-Roswell, GA (Metropolitan Statistical Area)	13
Portland-Vancouver-Hillsboro, OR-WA (Metropolitan Statistical Area)	13
Durham-Chapel Hill, NC (Metropolitan Statistical Area)	12
New Orleans-Metairie, LA (Metropolitan Statistical Area)	12
Sacramento-Roseville-Arden-Arcade, CA (Metropolitan Statistical Area)	12

High Demand Areas by State: Policy 2020



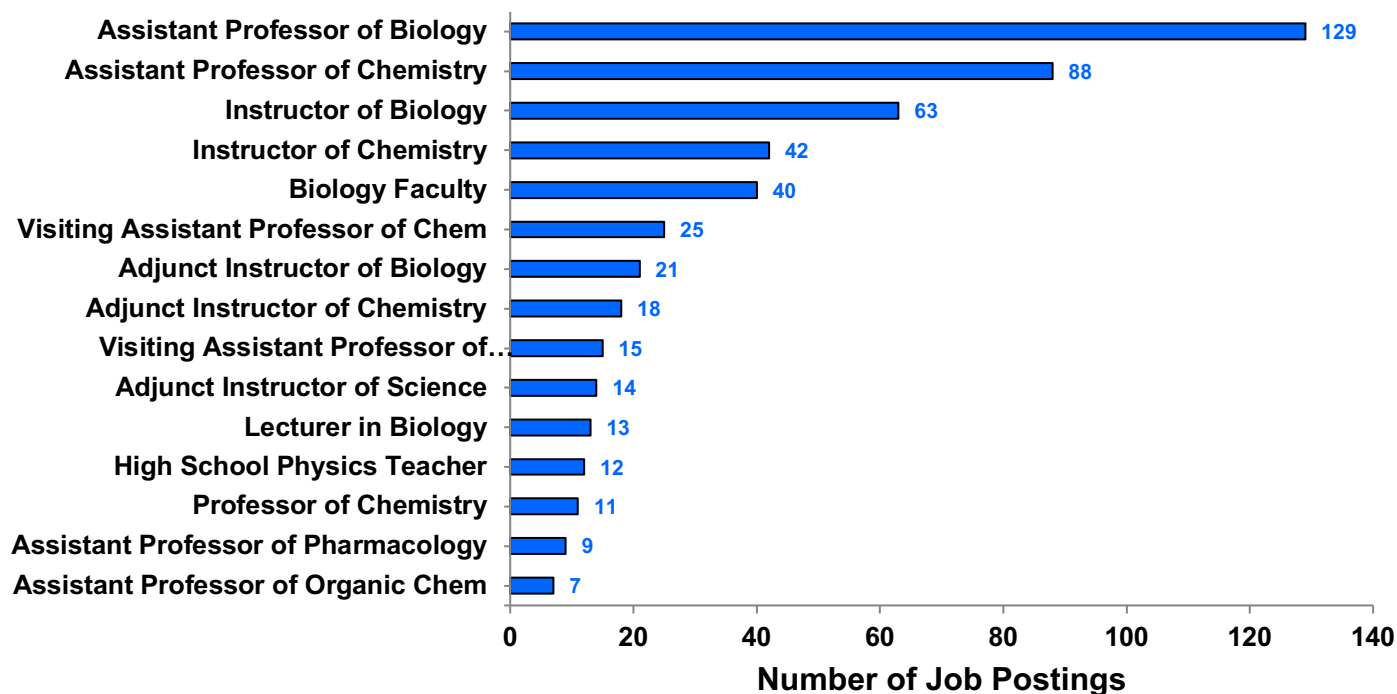
TOP 15 HIRING REGIONS

State	Job Postings
California	141
District of Columbia	86
Maryland	67
New York	51
Virginia	45
Massachusetts	37
Washington	33
Illinois	29
Pennsylvania	27
Louisiana	25
New Jersey	24
Ohio	21
Texas	21
North Carolina	20
Florida	19

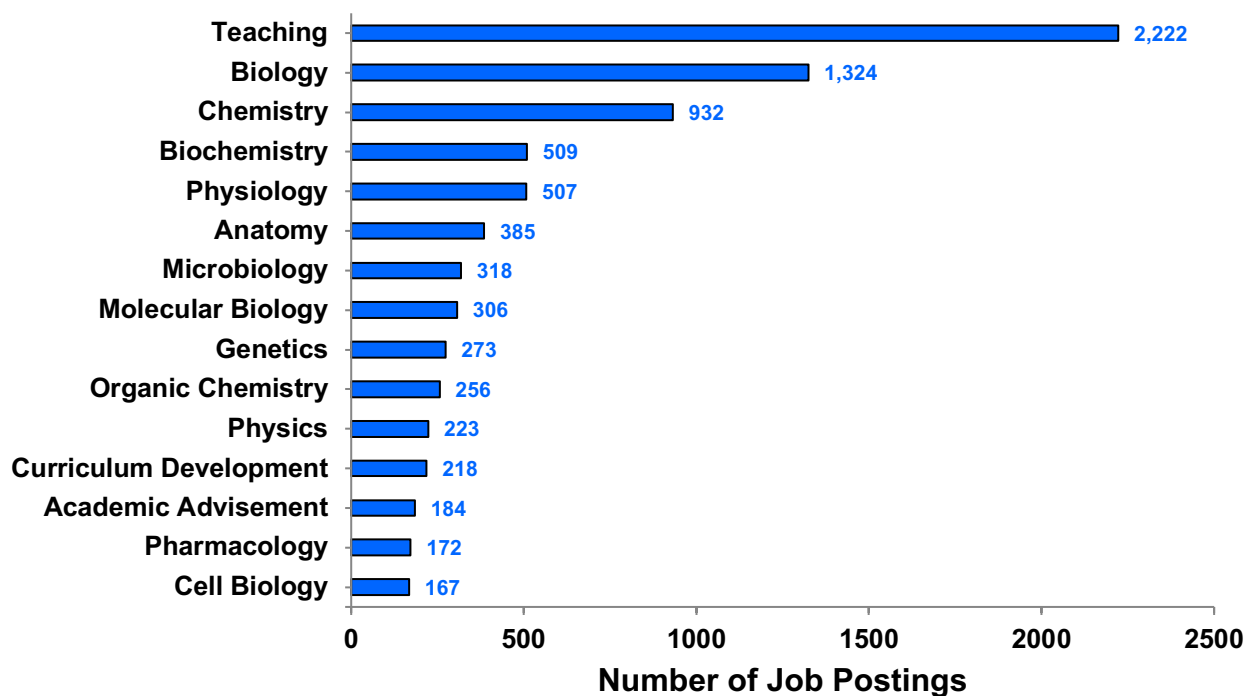
Teaching

Number of job postings (nationwide):
2,393

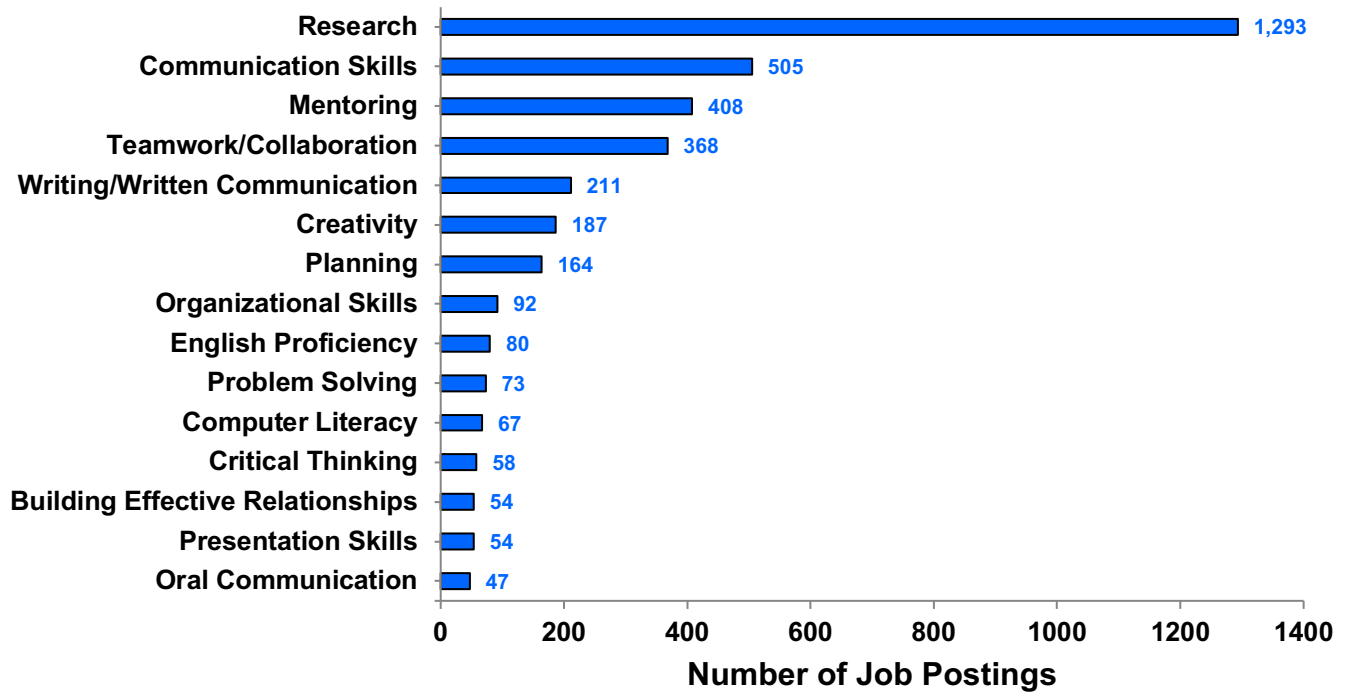
Top Job Titles: Teaching 2020



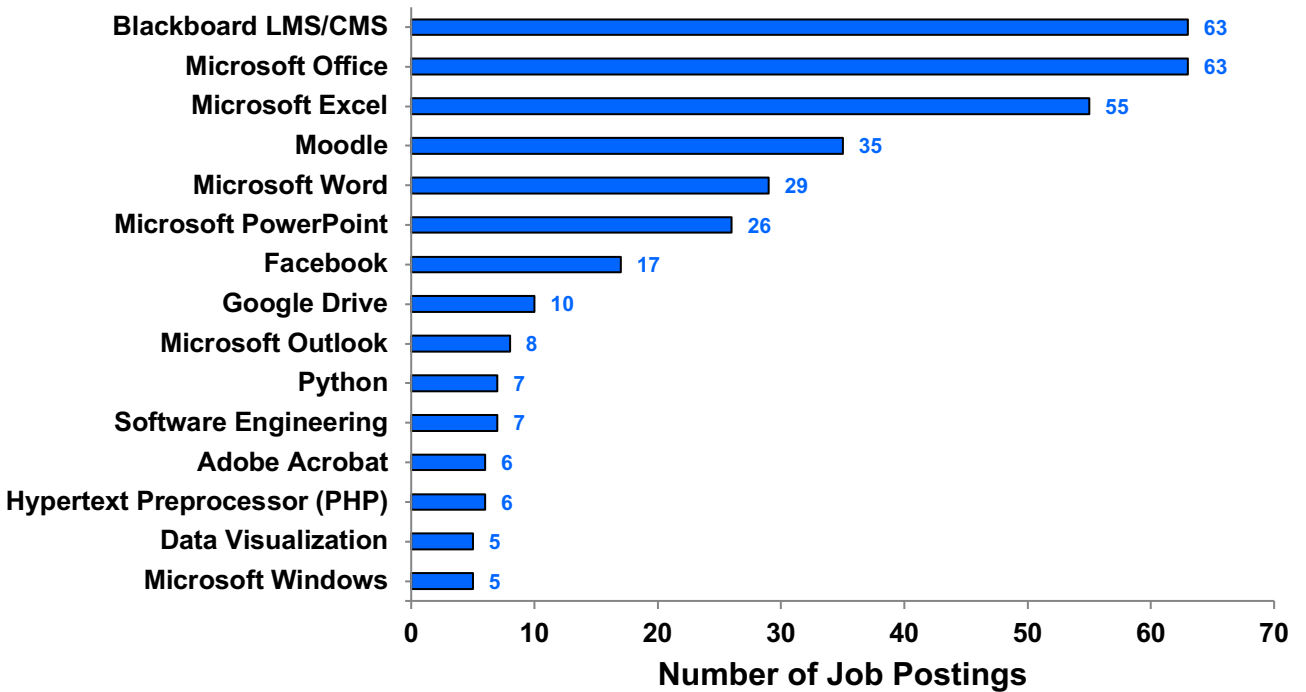
Specialized (Hard) Skills: Teaching 2020



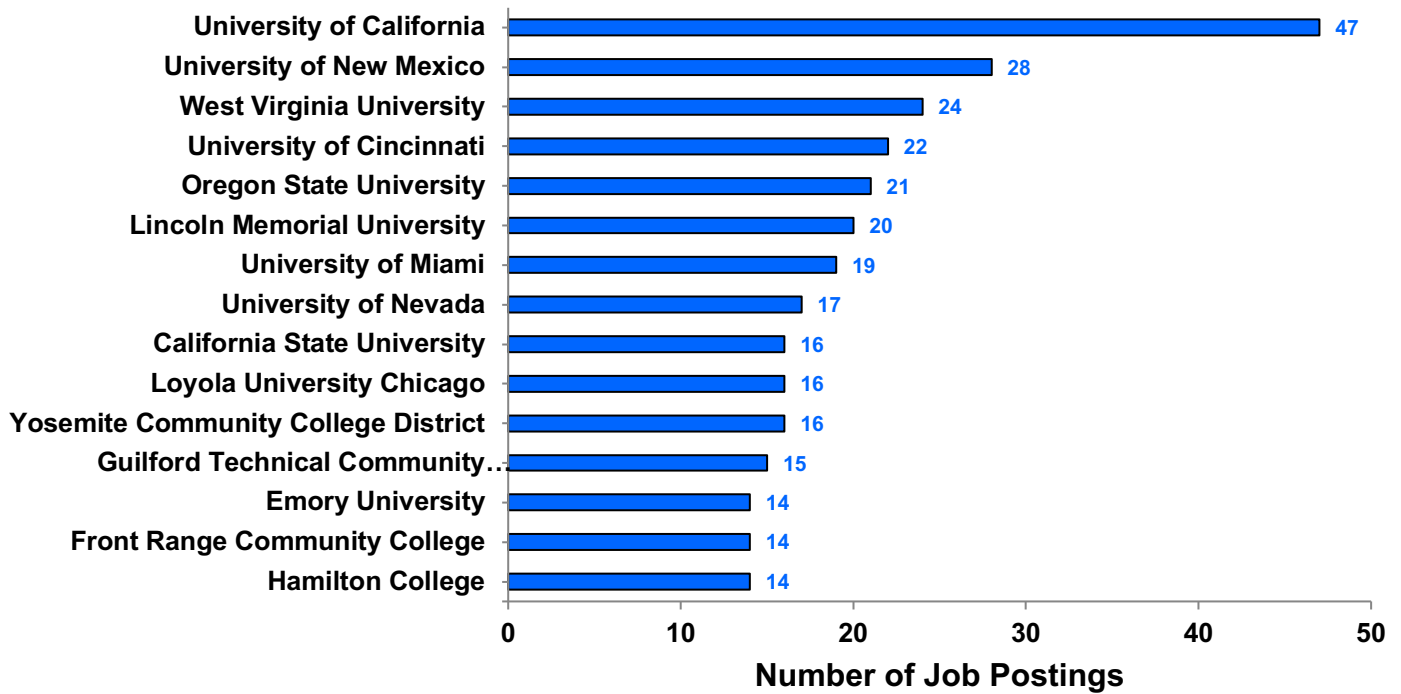
Baseline (Soft) Skills: Teaching 2020



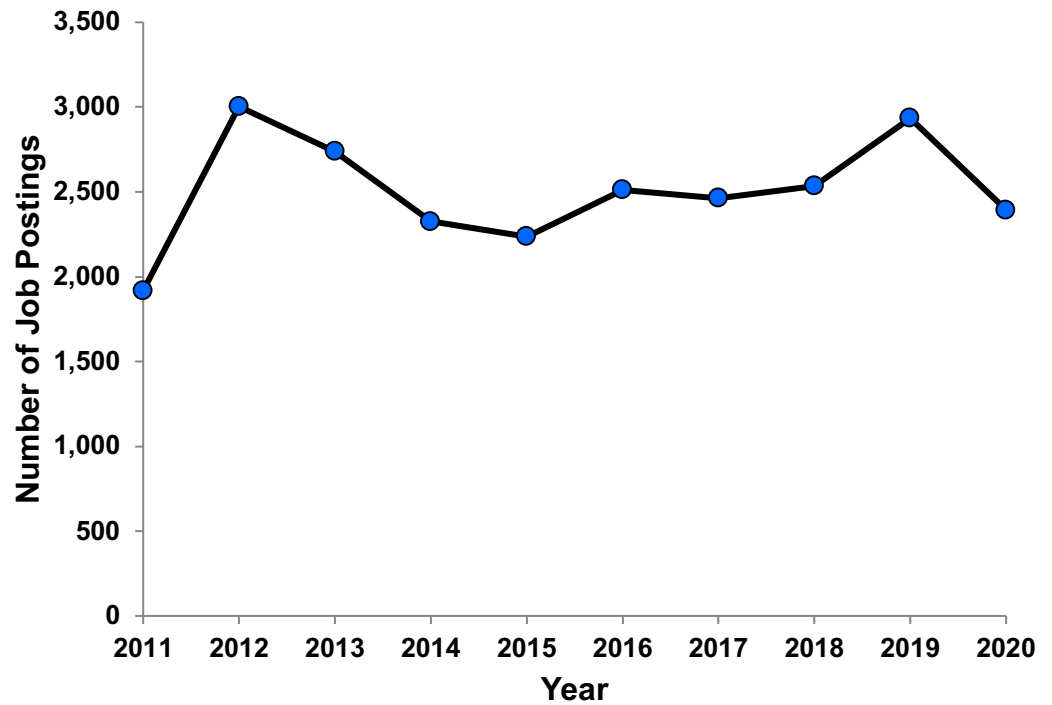
Computer Skills: Teaching 2020



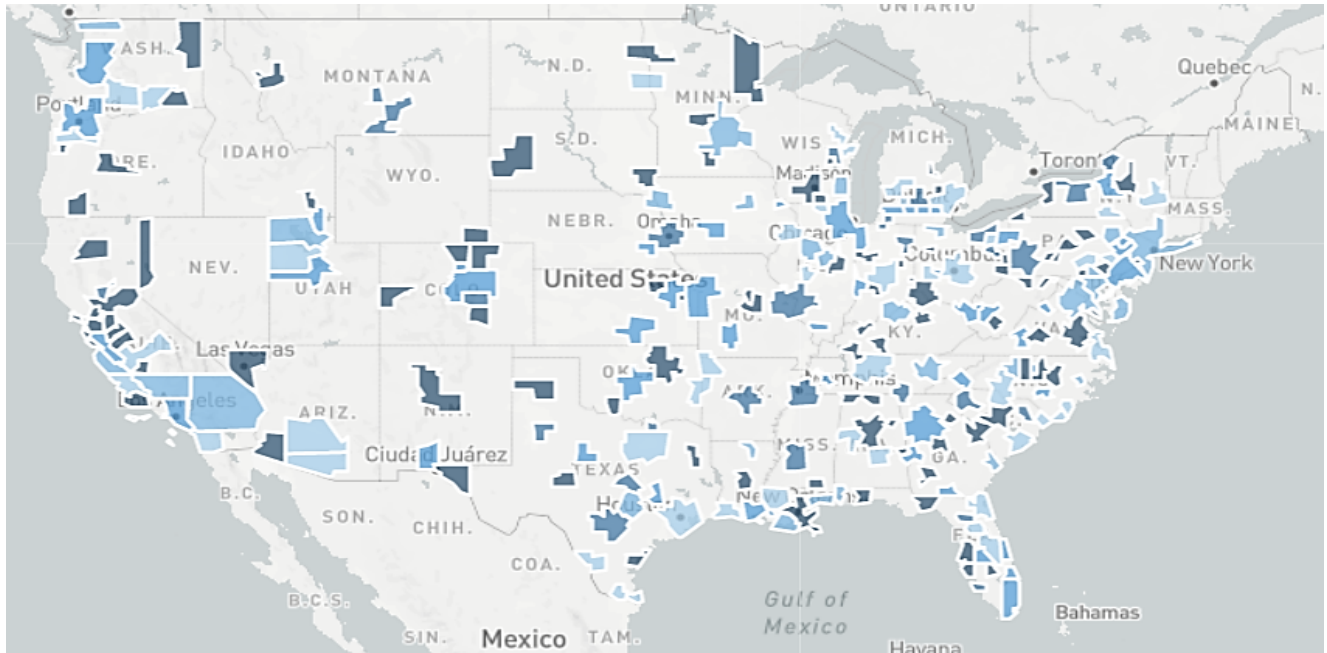
Top Employers: Teaching 2020



Job Postings by Year: Teaching 2011-2020



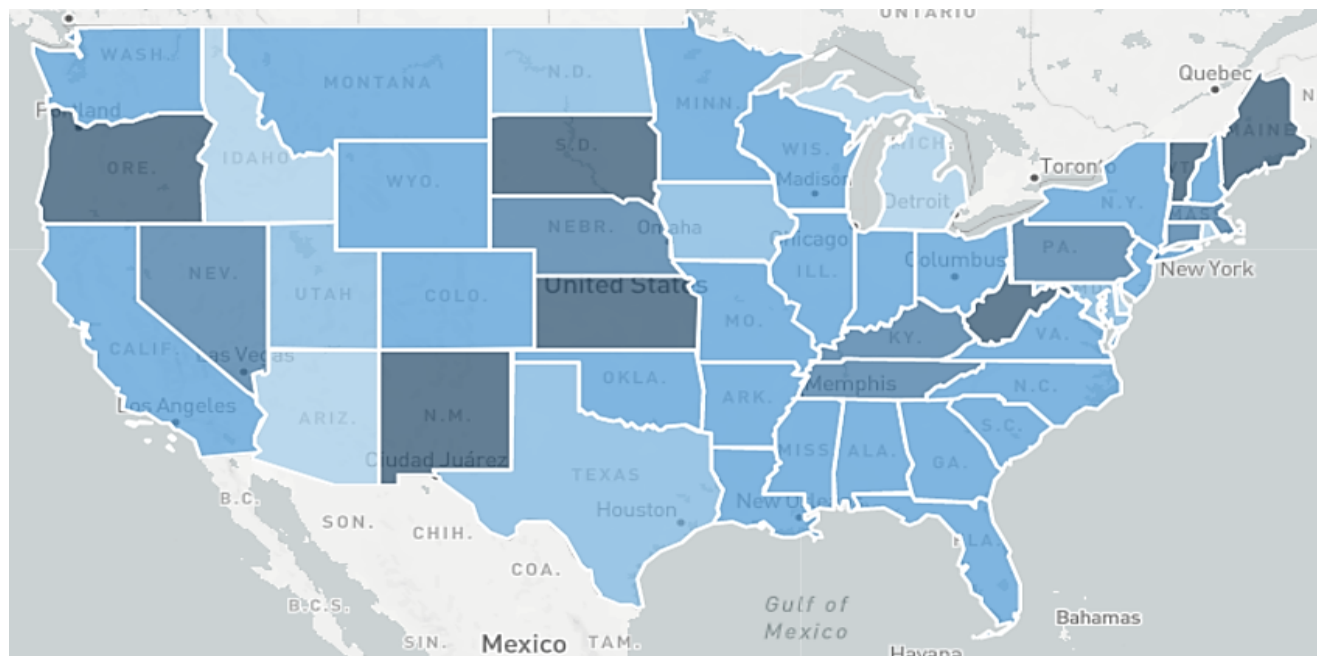
High Demand Areas by MSA: Teaching 2020



TOP 15 HIRING REGIONS

Metro Area	Job Postings
New York-Newark-Jersey City, NY-NJ-PA (Metropolitan Statistical Area)	104
Los Angeles-Long Beach-Anaheim, CA (Metropolitan Statistical Area)	80
San Francisco-Oakland-Hayward, CA (Metropolitan Statistical Area)	64
Chicago-Naperville-Elgin, IL-IN-WI (Metropolitan Statistical Area)	62
Boston-Cambridge-Nashua, MA-NH (Metropolitan NECTA)	55
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD (Metropolitan Statistical Area)	53
Atlanta-Sandy Springs-Roswell, GA (Metropolitan Statistical Area)	45
Washington-Arlington-Alexandria, DC-VA-MD-WV (Metropolitan Statistical Area)	36
Miami-Fort Lauderdale-West Palm Beach, FL (Metropolitan Statistical Area)	35
Seattle-Tacoma-Bellevue, WA (Metropolitan Statistical Area)	35
Cincinnati, OH-KY-IN (Metropolitan Statistical Area)	31
Tampa-St. Petersburg-Clearwater, FL (Metropolitan Statistical Area)	31
Houston-The Woodlands-Sugar Land, TX (Metropolitan Statistical Area)	30
Sacramento-Roseville-Arden-Arcade, CA (Metropolitan Statistical Area)	29
Albuquerque, NM (Metropolitan Statistical Area)	27

High Demand Areas by State: Teaching 2020



TOP 15 HIRING REGIONS

State	Job Postings
California	287
Texas	159
Pennsylvania	131
New York	130
Florida	113
Ohio	91
Illinois	83
Georgia	82
North Carolina	76
Massachusetts	71
Virginia	71
Tennessee	59
New Jersey	56
Minnesota	54
Colorado	50