

BU's BEST

Biomedical Workforce Data 2021



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*These data can also be found online at www.bu.edu/BEST.
This work was 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 does not necessarily match the exact values reported in previous years.

Workflow

1. Develop a search based on various criteria: industry, job type, required credentials, skill demand, experience, location, etc.
2. View reports: top job titles, top job skills, top employers, job trends, job demand maps, etc.

Notes

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

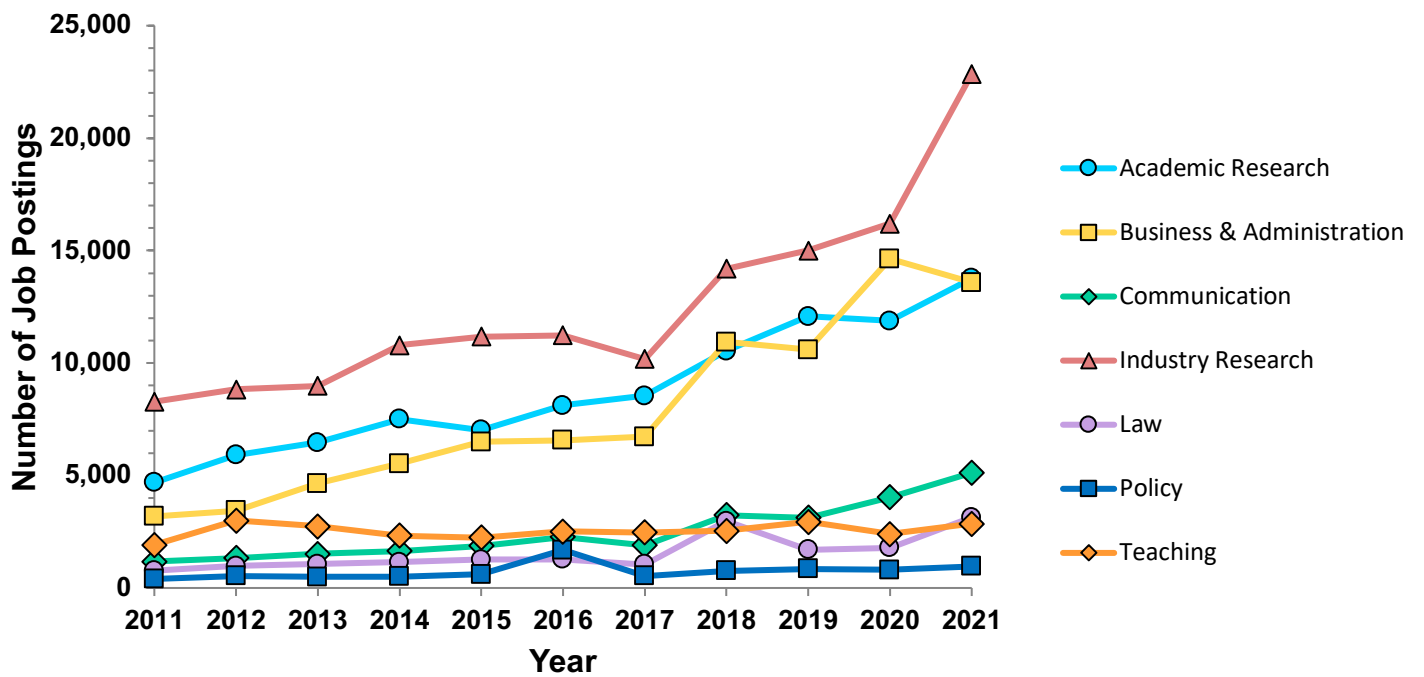
Caveats & Disclaimers

Date ranges are January 1, 2021 – December 31, 2021 for job searches (trend analysis, 2011-2021).

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

Career Paths: Job Trends Summary

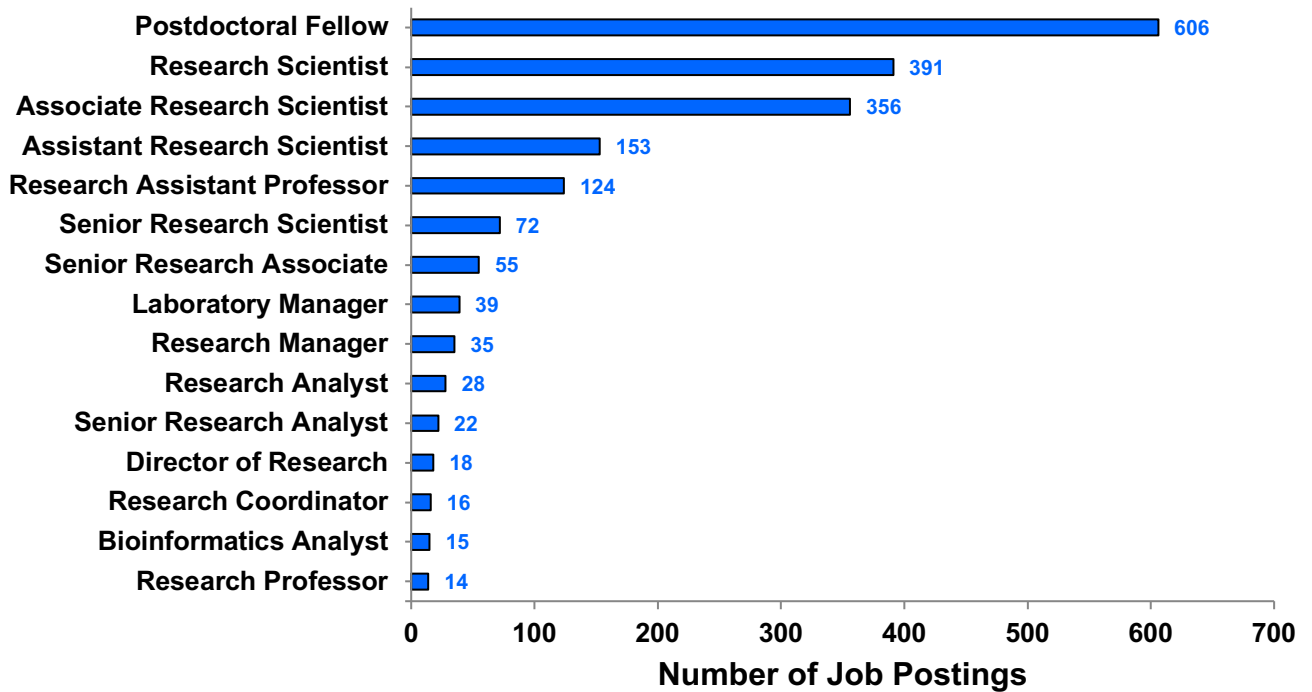
Job Postings by Year (2011-2021)



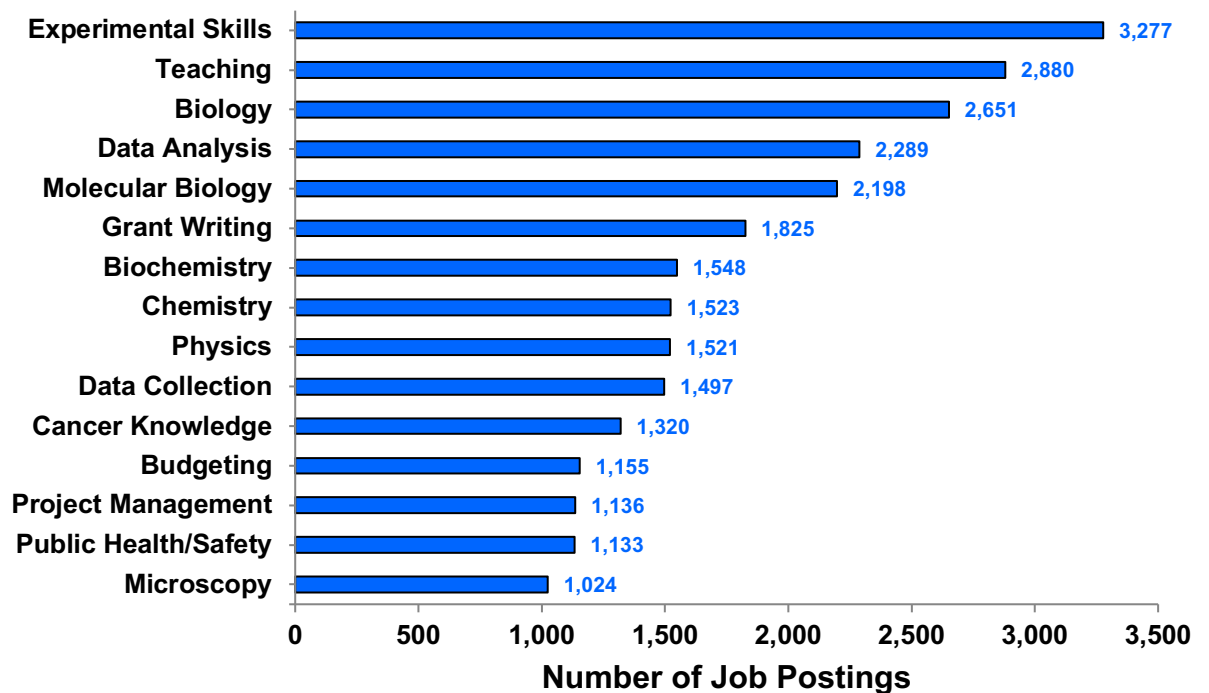
Academic Research

Number of job postings (nationwide):
13,761

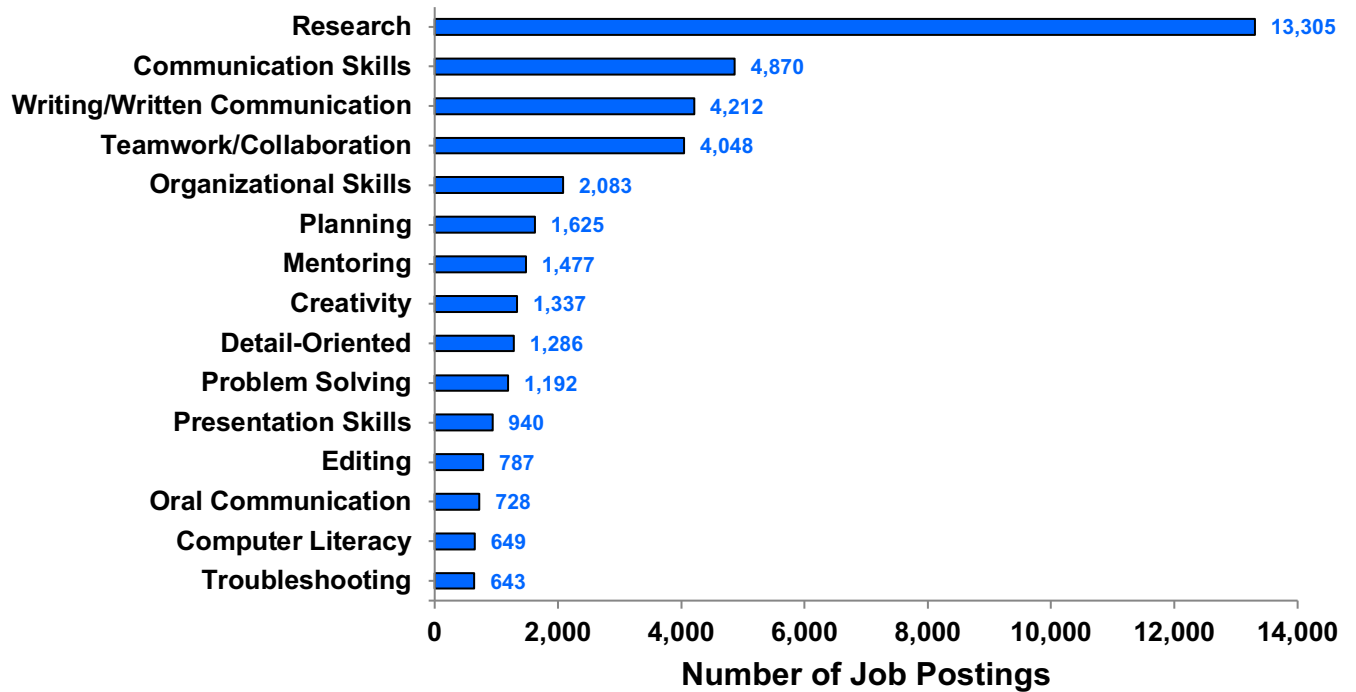
Job Titles: Academic Research 2021



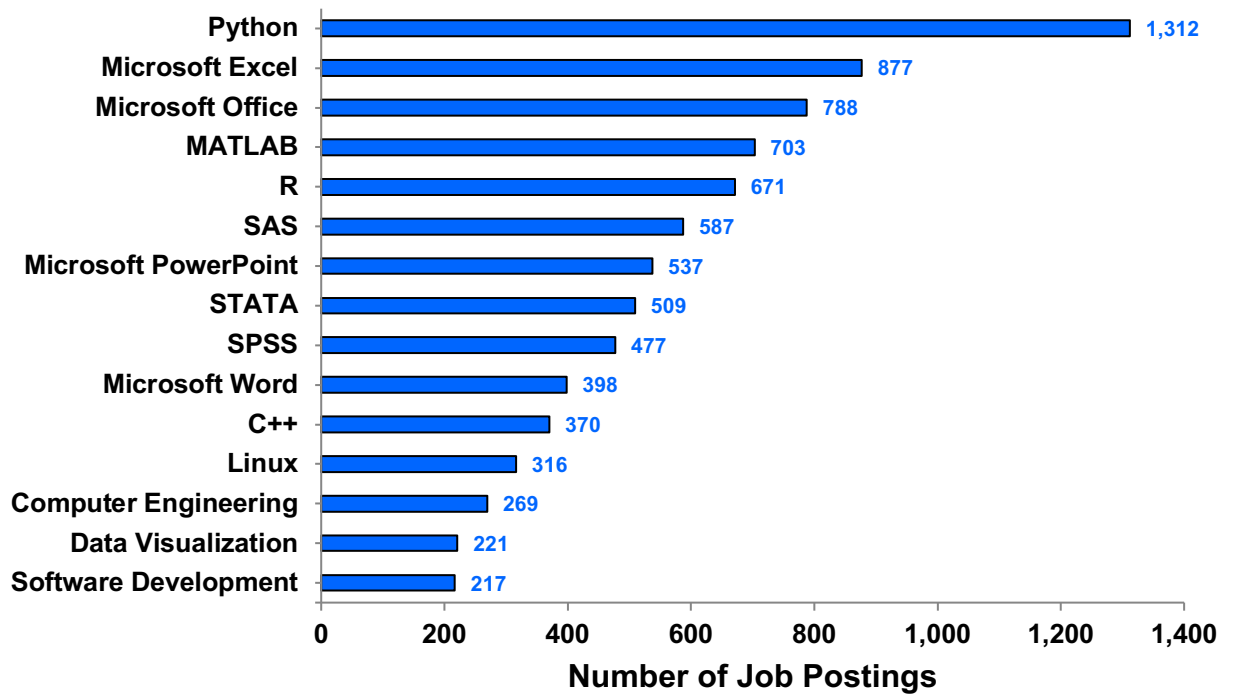
Specialized (Hard) Skills: Academic Research 2021



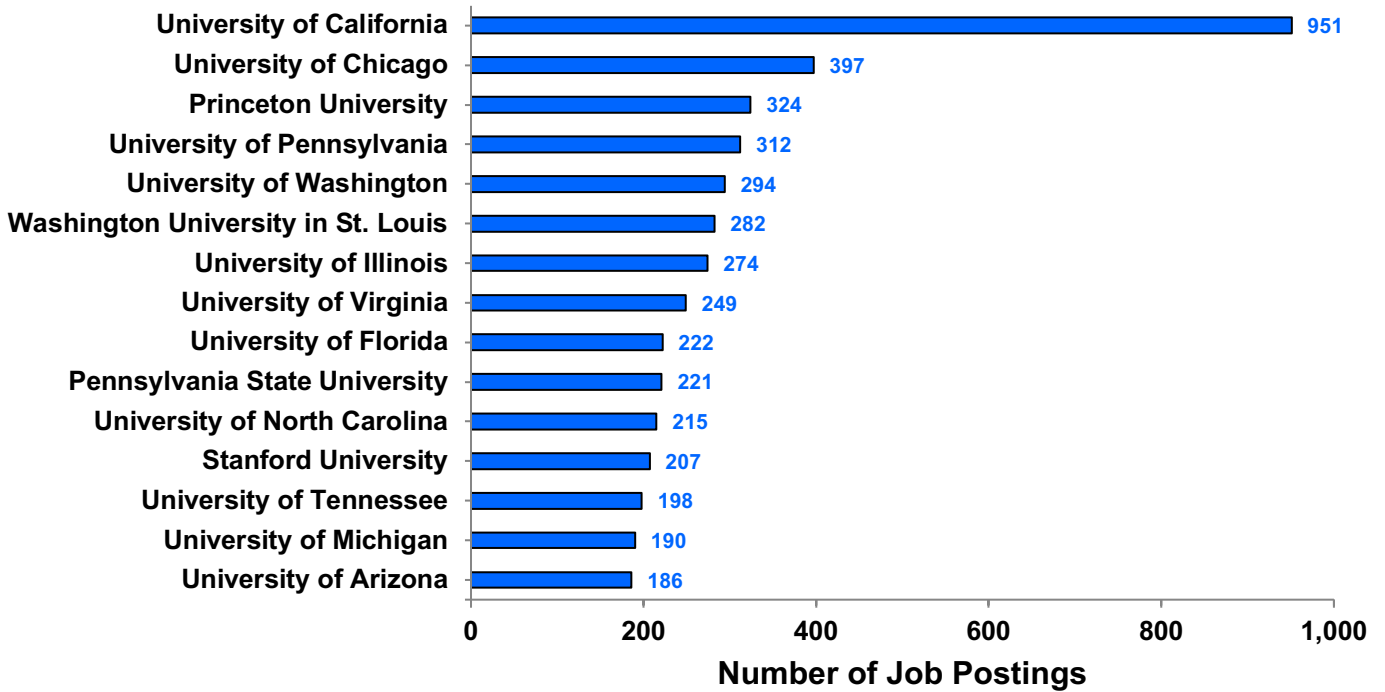
Baseline (Soft) Skills: Academic Research 2021



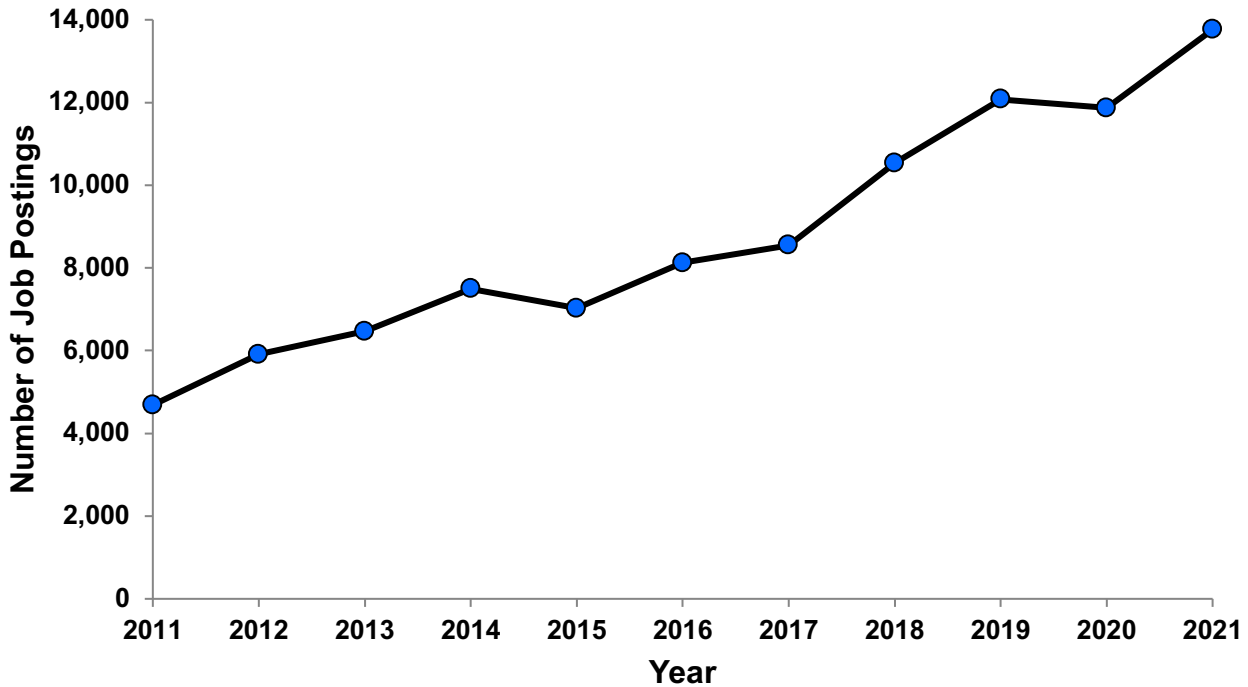
Computer Skills: Academic Research 2021



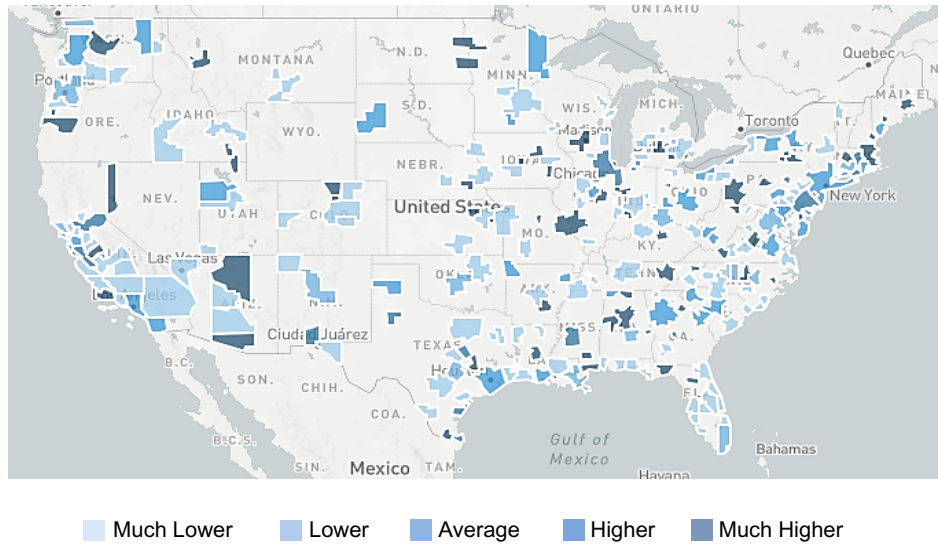
Employers: Academic Research 2021



Job Postings by Year: Academic Research 2011-2021



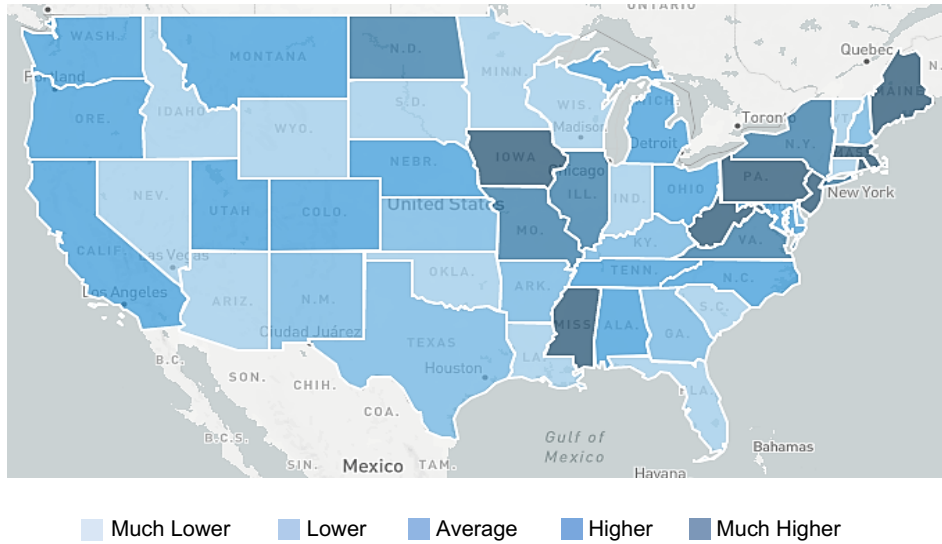
Demand Areas by MSA: Academic Research 2021



Metropolitan Statistical Area (MSA)	Job Postings
New York-Newark-Jersey City, NY-NJ-PA	743
Chicago-Naperville-Elgin, IL-IN-WI	693
Boston-Cambridge-Nashua, MA-NH*	631
Los Angeles-Long Beach-Anaheim, CA	611
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	421
San Francisco-Oakland-Hayward, CA	352
Trenton, NJ	333
Seattle-Tacoma-Bellevue, WA	316
St. Louis, MO-IL	301
Atlanta-Sandy Springs-Roswell, GA	287
Washington-Arlington-Alexandria, DC-VA-MD-WV	265
Charlottesville, VA	240
Houston-The Woodlands-Sugar Land, TX	238
San Jose-Sunnyvale-Santa Clara, CA	222
Durham-Chapel Hill, NC	214

*Metropolitan NECTA (New England City and Town Area)

Demand Areas by State: Academic Research 2021

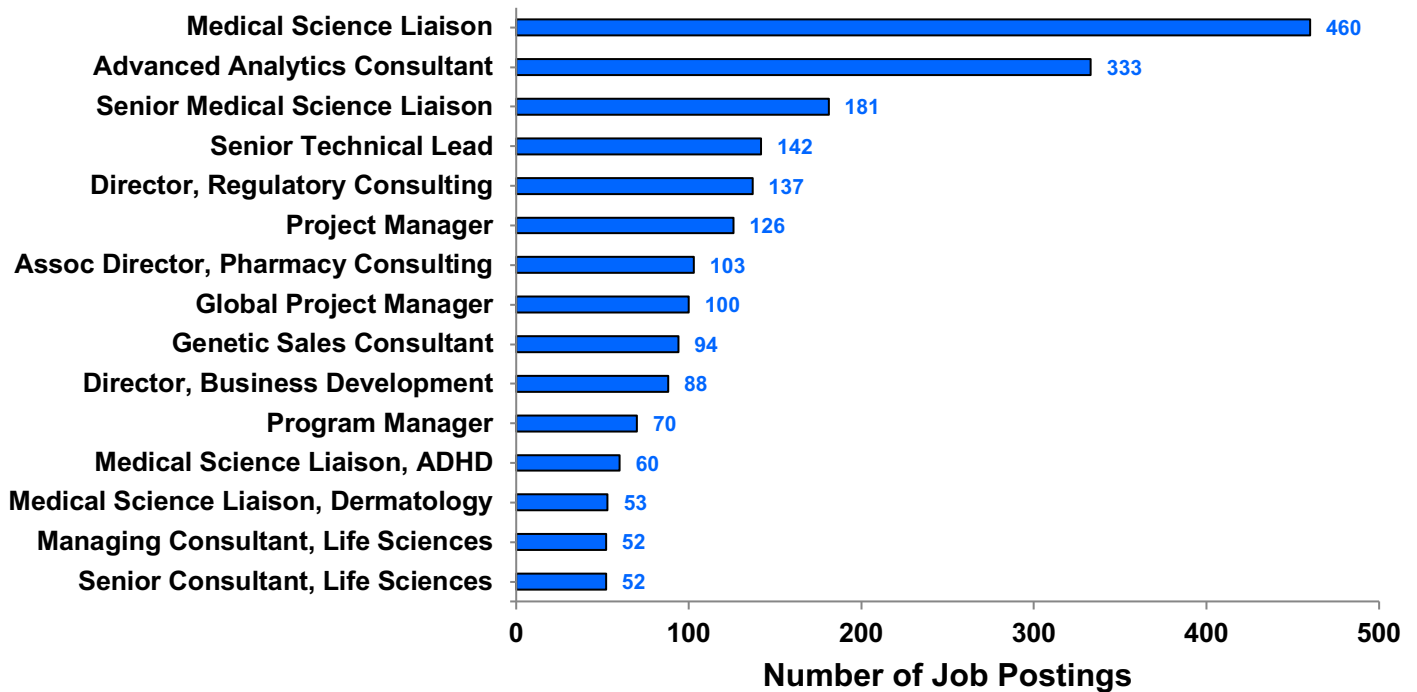


State	Job Postings
California	1,757
Pennsylvania	837
Illinois	829
New York	778
Texas	774
Massachusetts	770
Florida	554
New Jersey	554
Virginia	502
Ohio	451
Colorado	427
North Carolina	412
Washington	387
Georgia	380
Michigan	375

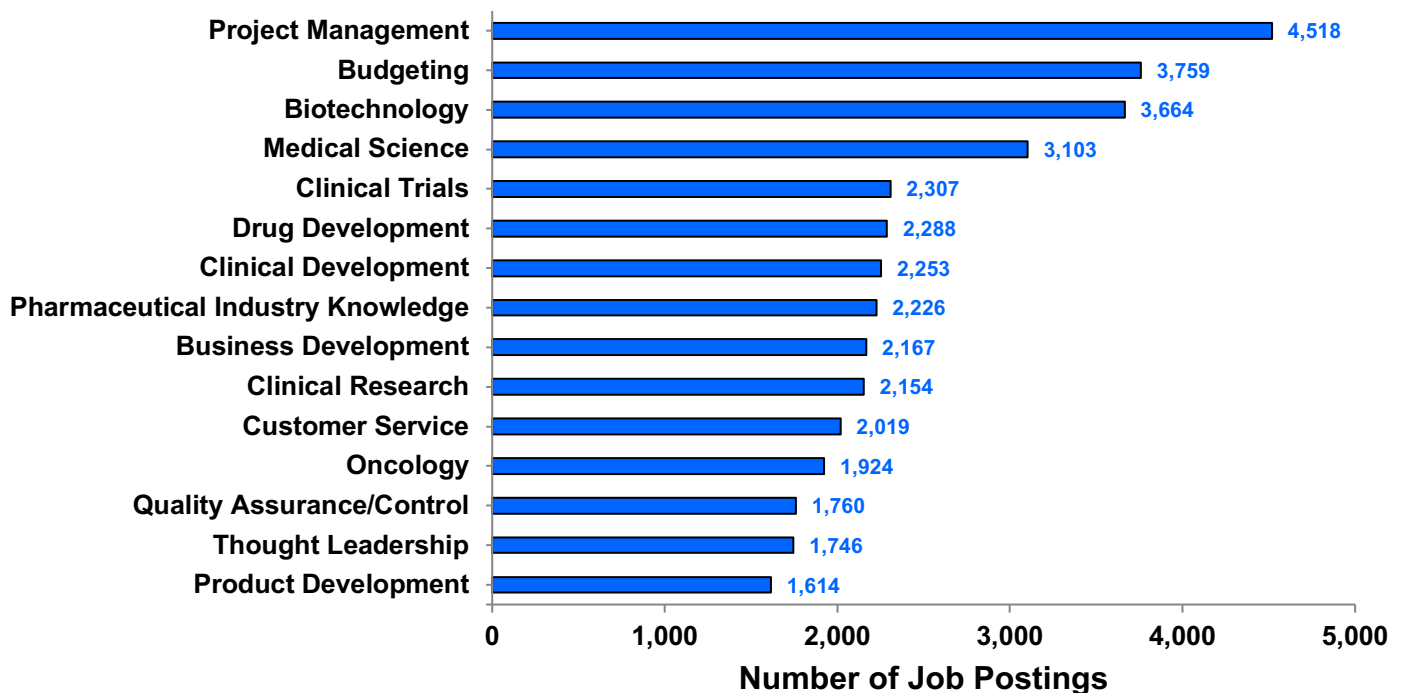
Business & Administration

Number of job postings (nationwide):
13,578

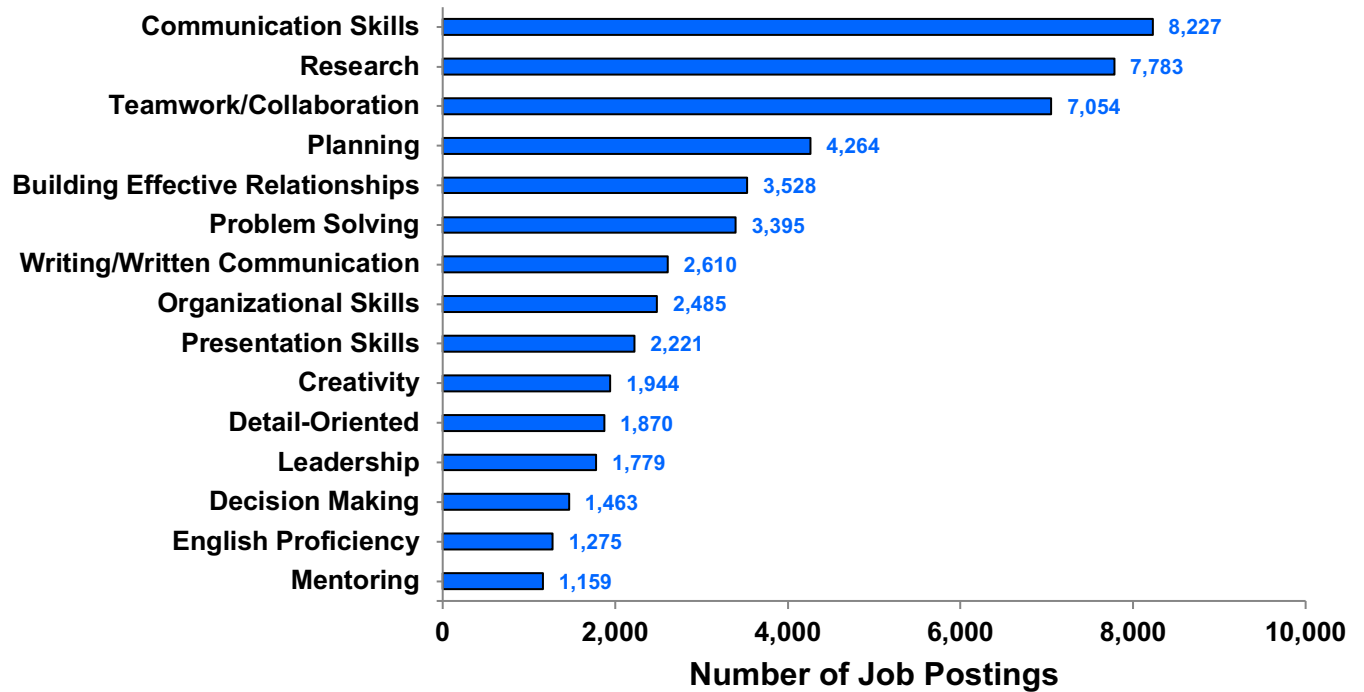
Job Titles: Business & Administration 2021



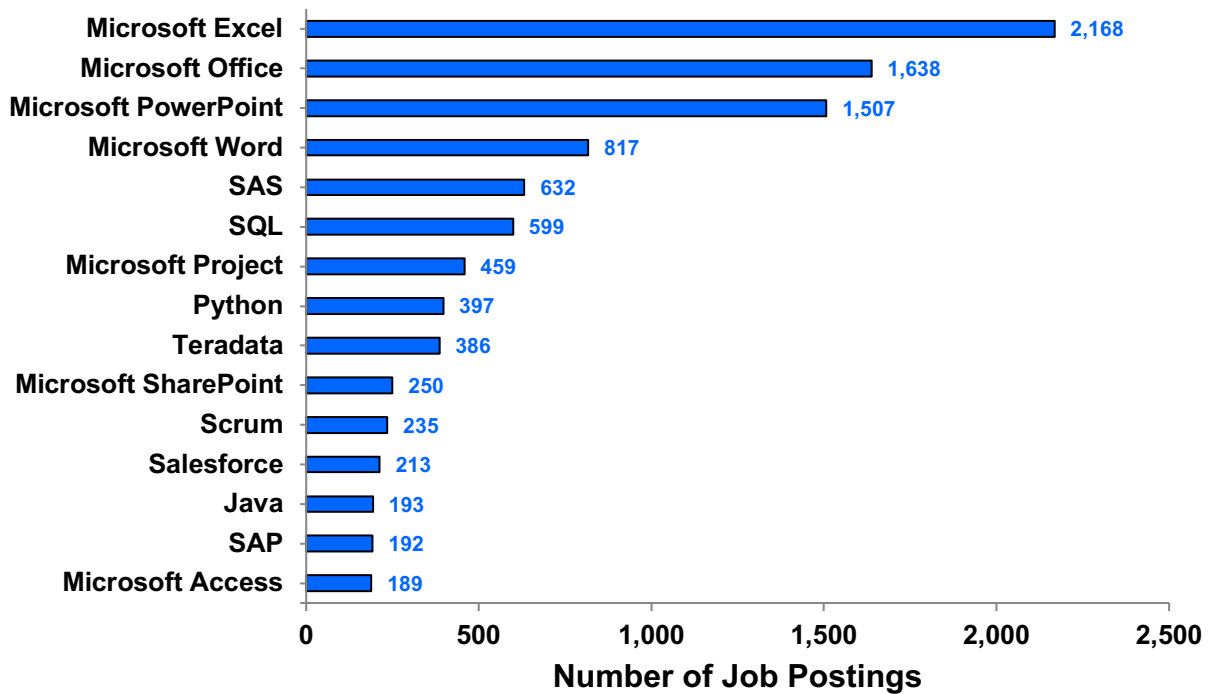
Specialized (Hard) Skills: Business & Administration 2021



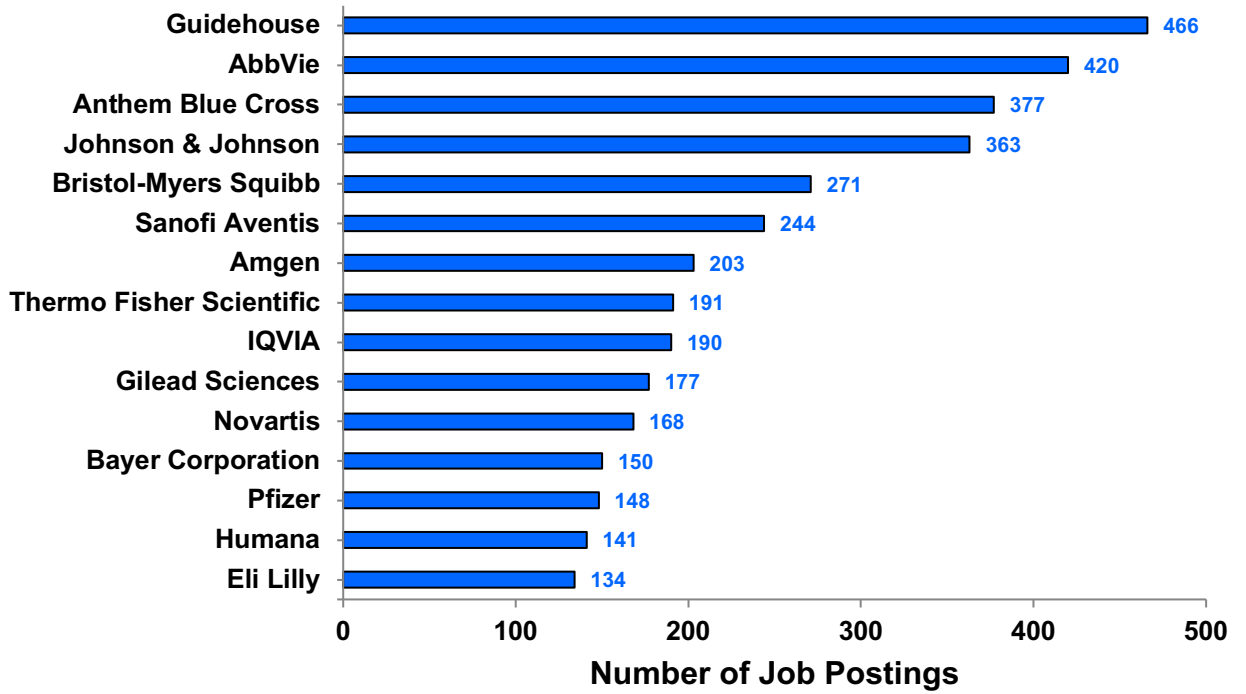
Baseline (Soft) Skills: Business & Administration 2021



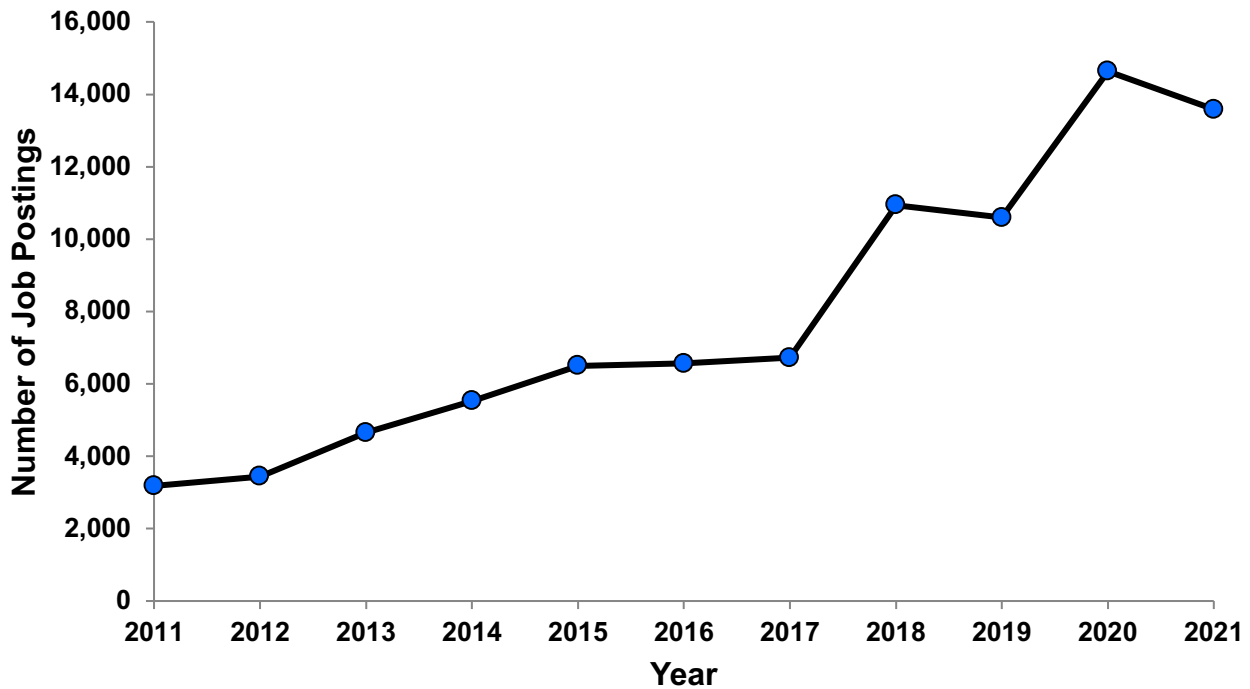
Computer Skills: Business & Administration 2021



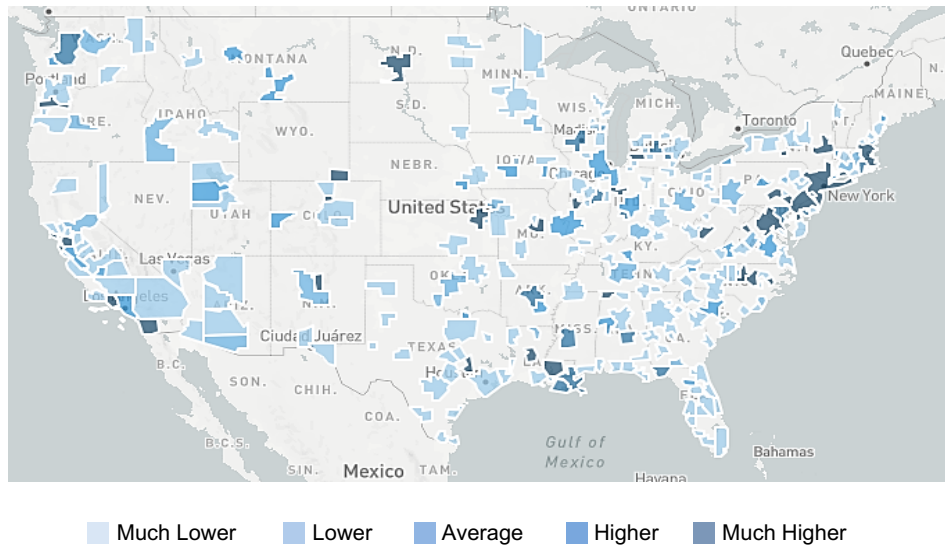
Employers: Business & Administration 2021



Job Postings by Year: Business & Admin 2011-2021



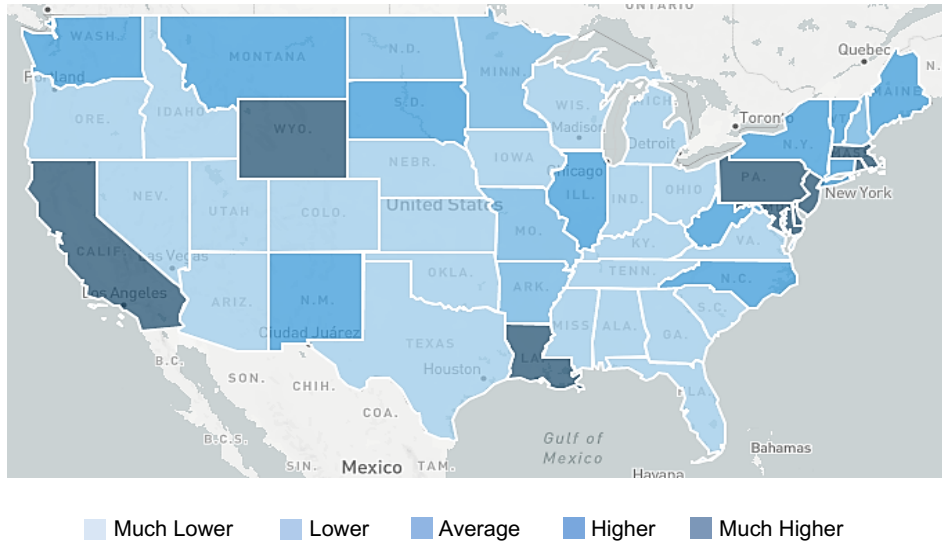
Demand Areas by MSA: Business & Administration 2021



Metropolitan Statistical Area (MSA)	Job Postings
Boston-Cambridge-Nashua, MA-NH*	1,309
San Francisco-Oakland-Hayward, CA	1,282
New York-Newark-Jersey City, NY-NJ-PA	1,167
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	626
Washington-Arlington-Alexandria, DC-VA-MD-WV	616
San Diego-Carlsbad, CA	543
Los Angeles-Long Beach-Anaheim, CA	483
Chicago-Naperville-Elgin, IL-IN-WI	410
Seattle-Tacoma-Bellevue, WA	357
Dallas-Fort Worth-Arlington, TX	244
Durham-Chapel Hill, NC	200
Trenton, NJ	196
Atlanta-Sandy Springs-Roswell, GA	193
Oxnard-Thousand Oaks-Ventura, CA	191
Raleigh, NC	184

*Metropolitan NECTA (New England City and Town Area)

Demand Areas by State: Business & Administration 2021

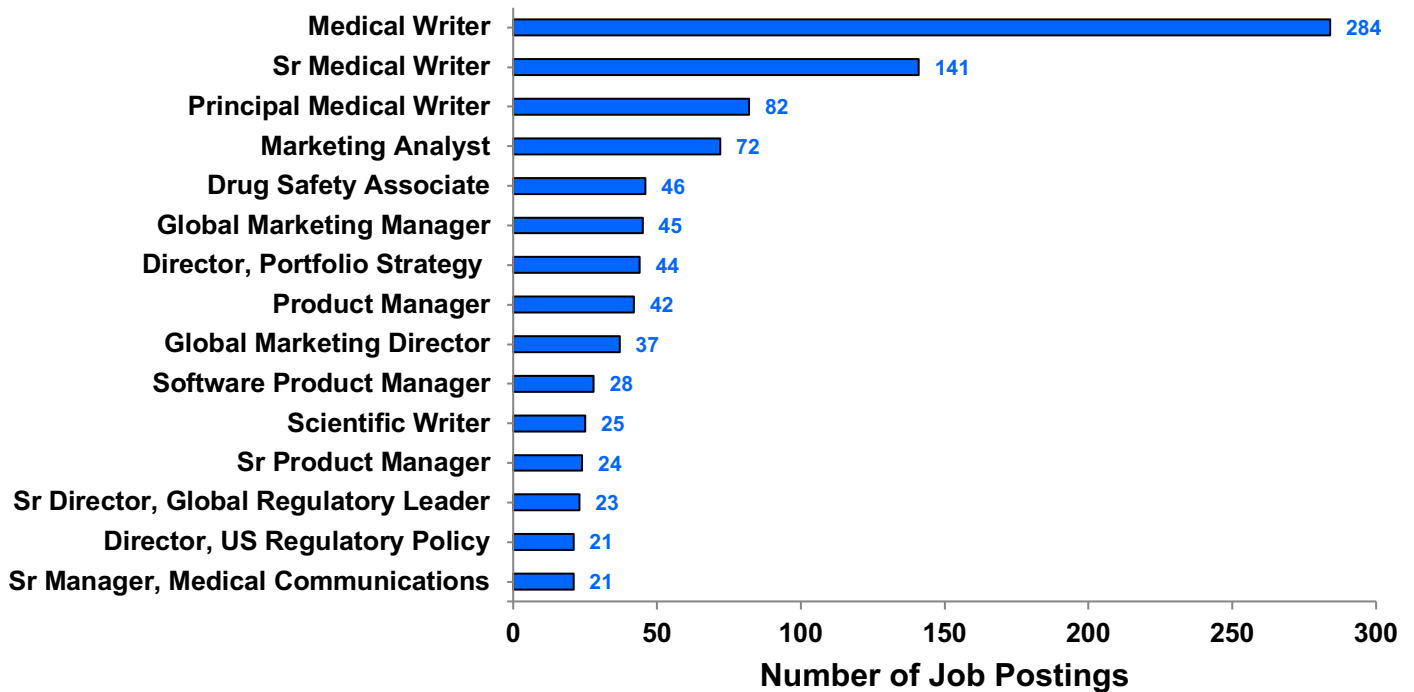


State	Job Postings
California	2,882
Massachusetts	1,387
New Jersey	810
New York	694
Pennsylvania	684
Texas	599
North Carolina	526
Maryland	483
Illinois	471
Washington	391
Florida	370
Georgia	260
Colorado	247
Ohio	244
Virginia	238

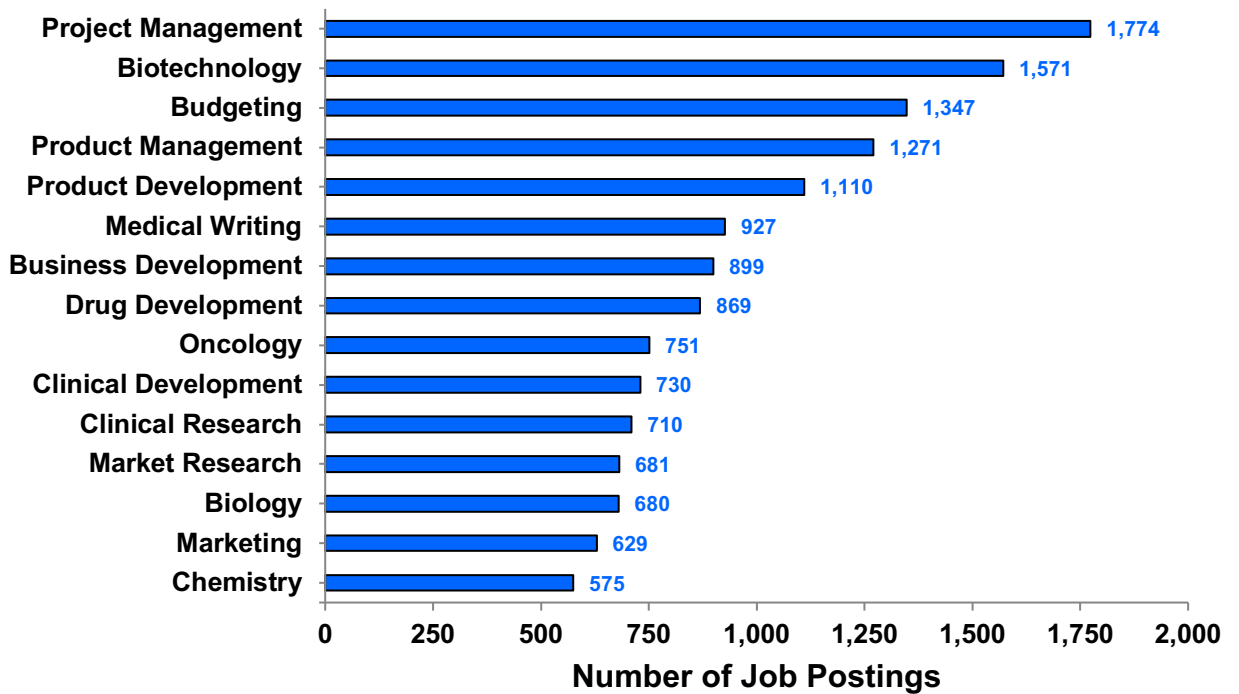
Communication

Number of job postings (nationwide):
5,120

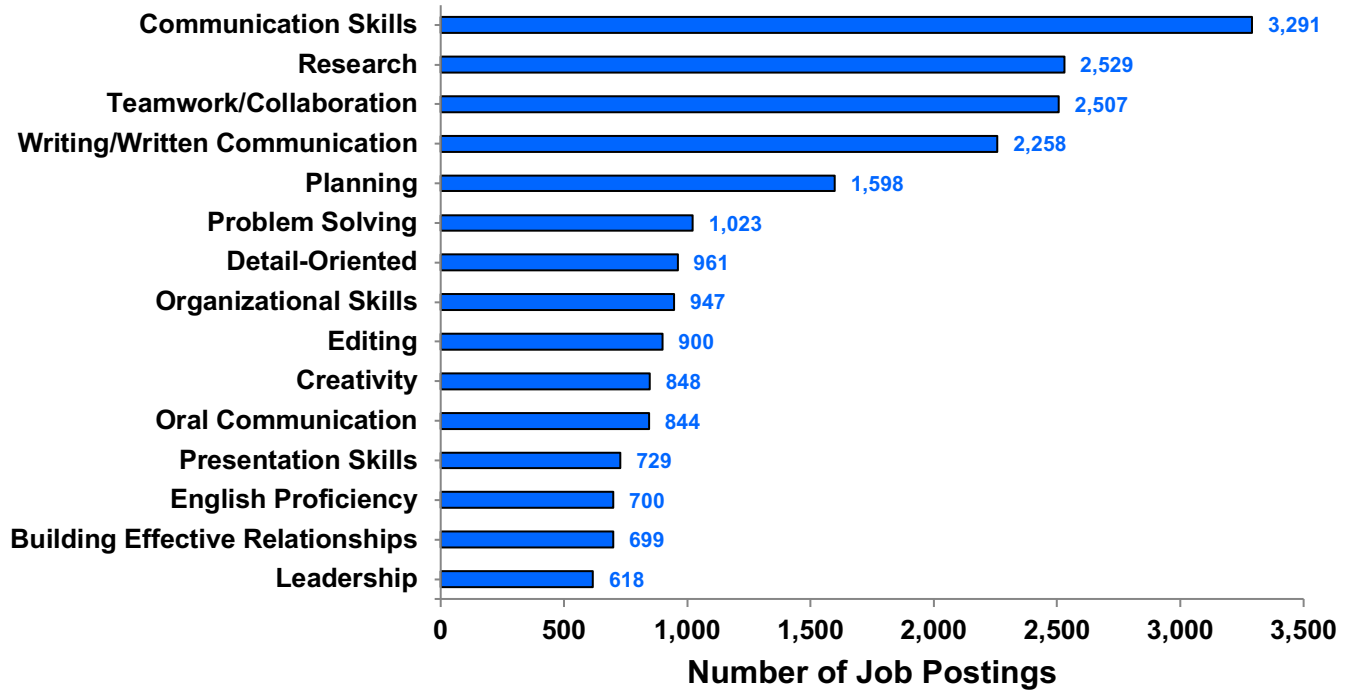
Job Titles: Communication 2021



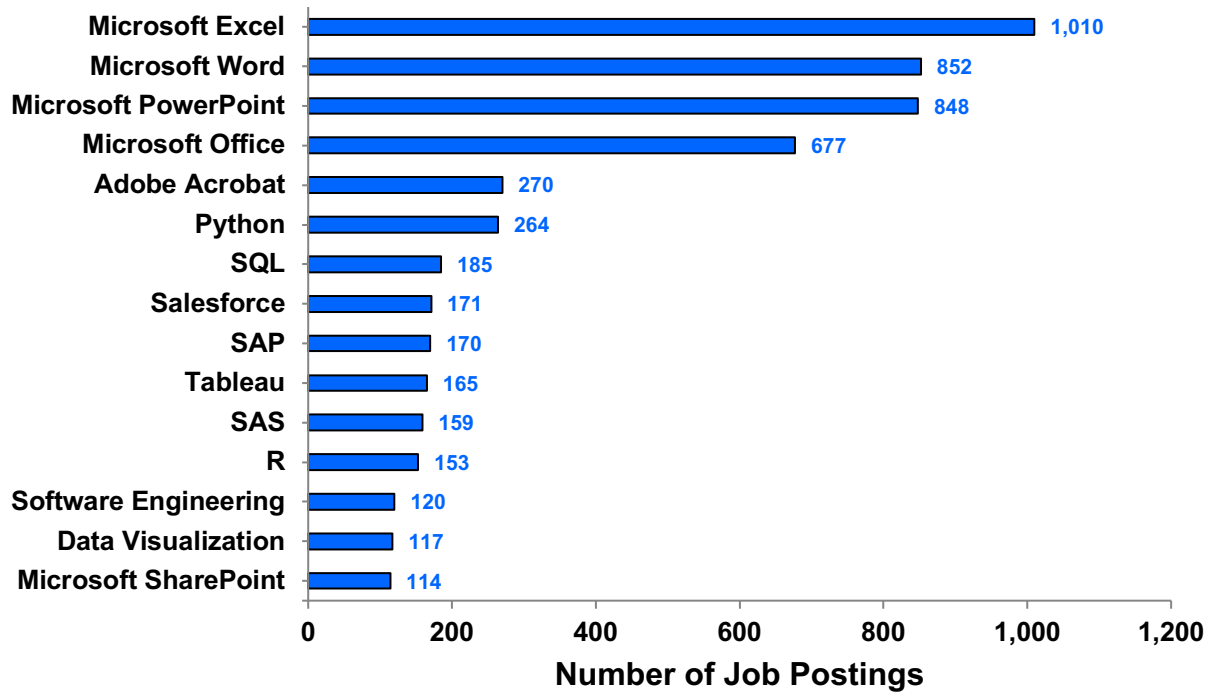
Specialized (Hard) Skills: Communication 2021



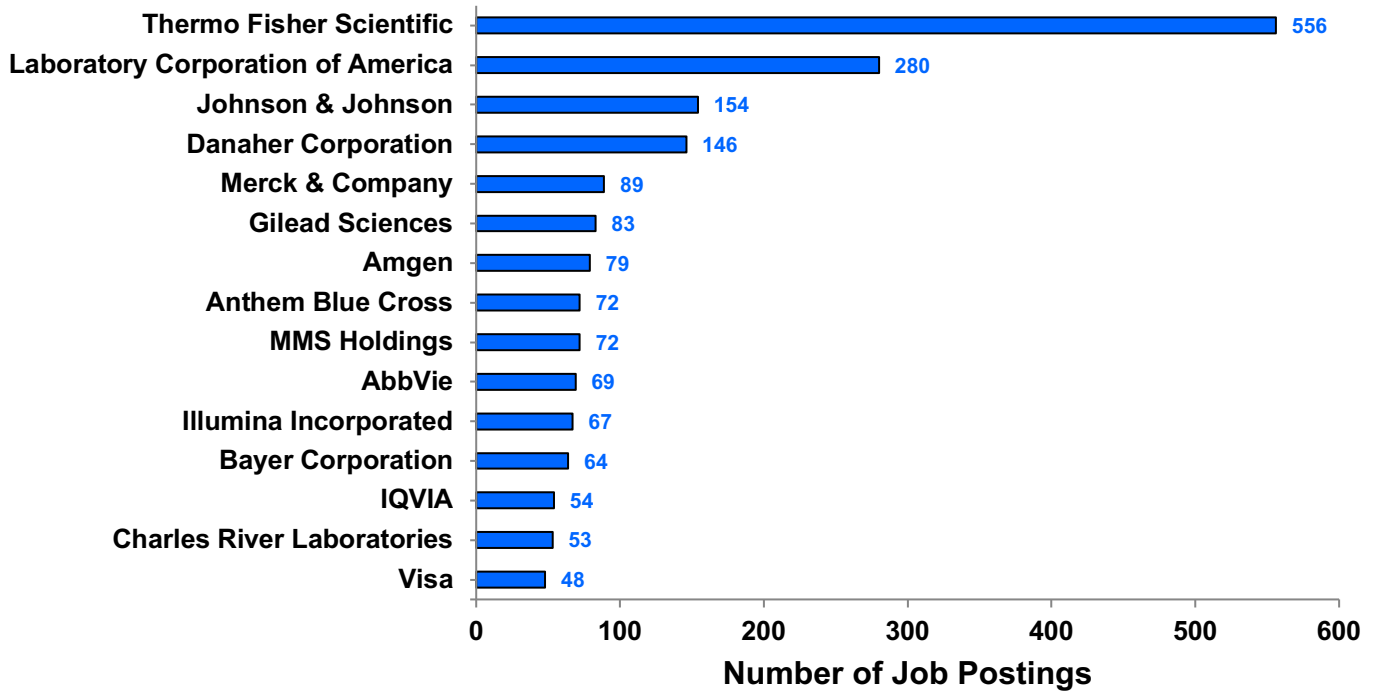
Baseline (Soft) Skills: Communication 2021



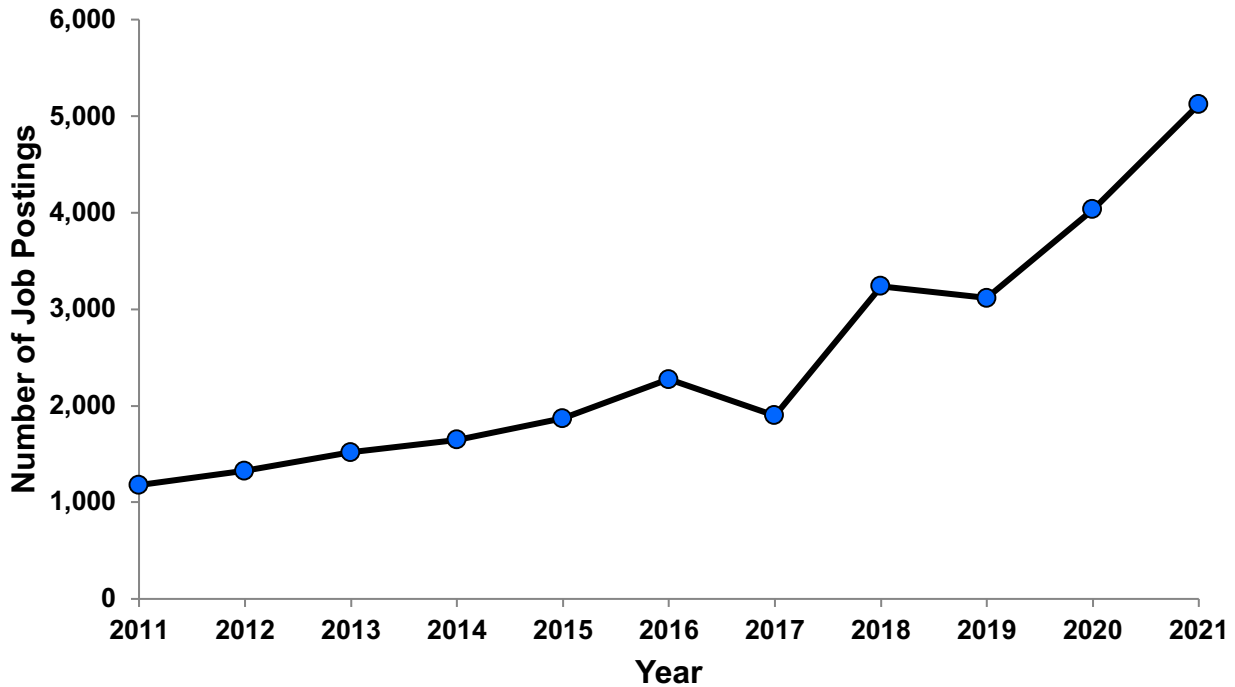
Computer Skills: Communication 2021



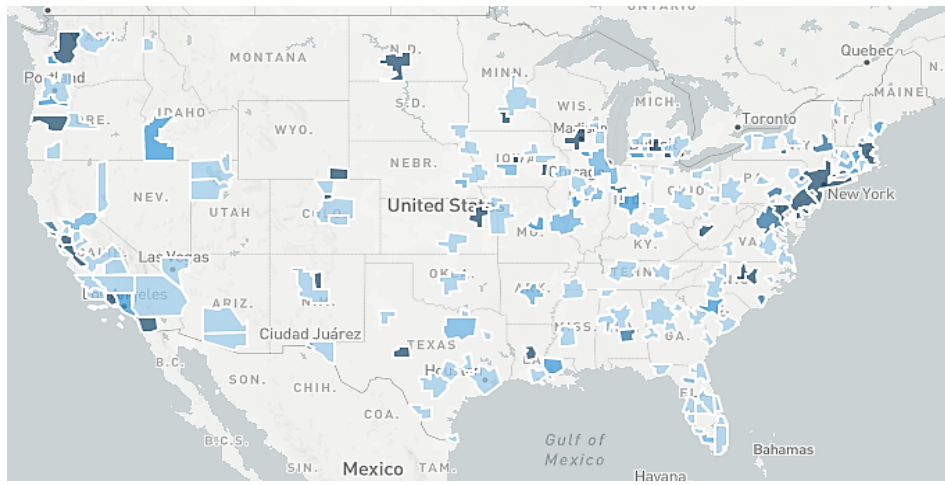
Employers: Communication 2021



Job Postings by Year: Communication 2011-2021



Demand Areas by MSA: Communication 2021

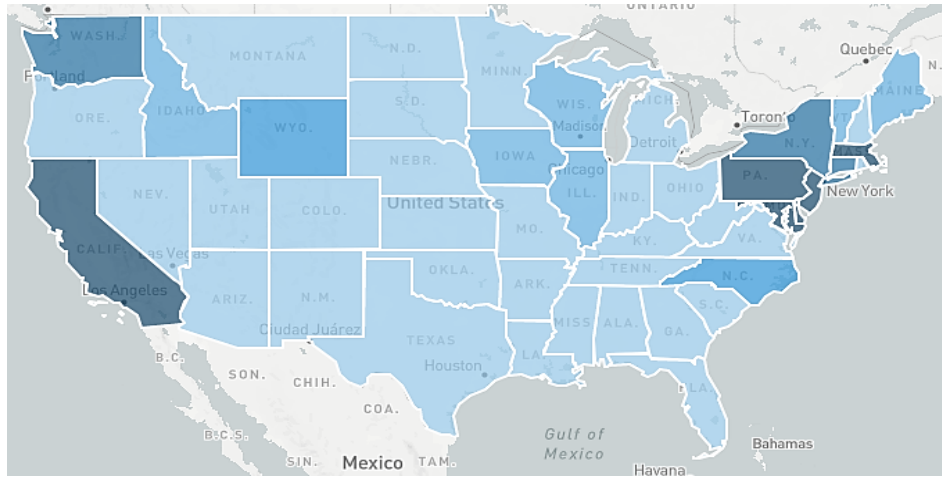


■ Much Lower
 ■ Lower
 ■ Average
 ■ Higher
 ■ Much Higher

Metropolitan Statistical Area (MSA)	Job Postings
Boston-Cambridge-Nashua, MA-NH	569
New York-Newark-Jersey City, NY-NJ-PA	539
San Francisco-Oakland-Hayward, CA	481
San Diego-Carlsbad, CA	342
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	266
Los Angeles-Long Beach-Anaheim, CA	227
Washington-Arlington-Alexandria, DC-VA-MD-WV	182
Seattle-Tacoma-Bellevue, WA	172
Chicago-Naperville-Elgin, IL-IN-WI	140
San Jose-Sunnyvale-Santa Clara, CA	136
Dallas-Fort Worth-Arlington, TX	116
Durham-Chapel Hill, NC	101
Oxnard-Thousand Oaks-Ventura, CA	91
Baltimore-Columbia-Towson, MD	90
Atlanta-Sandy Springs-Roswell, GA	63

*Metropolitan NECTA (New England City and Town Area)

Demand Areas by State: Communication 2021



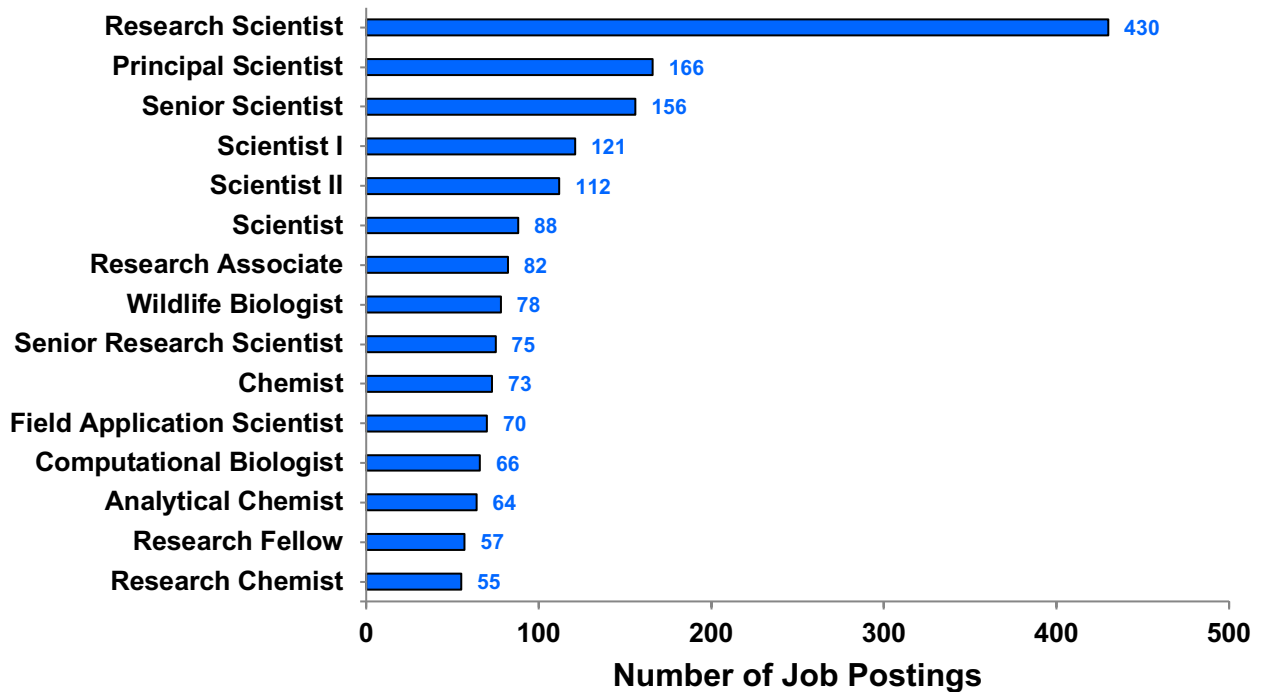
■ Much Lower
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 ■ Much Higher

State	Job Postings
California	1,355
Massachusetts	596
New York	327
New Jersey	325
Pennsylvania	258
Texas	215
North Carolina	204
Maryland	201
Washington	182
Illinois	154
Florida	99
Michigan	88
Colorado	84
Connecticut	82
Georgia	82

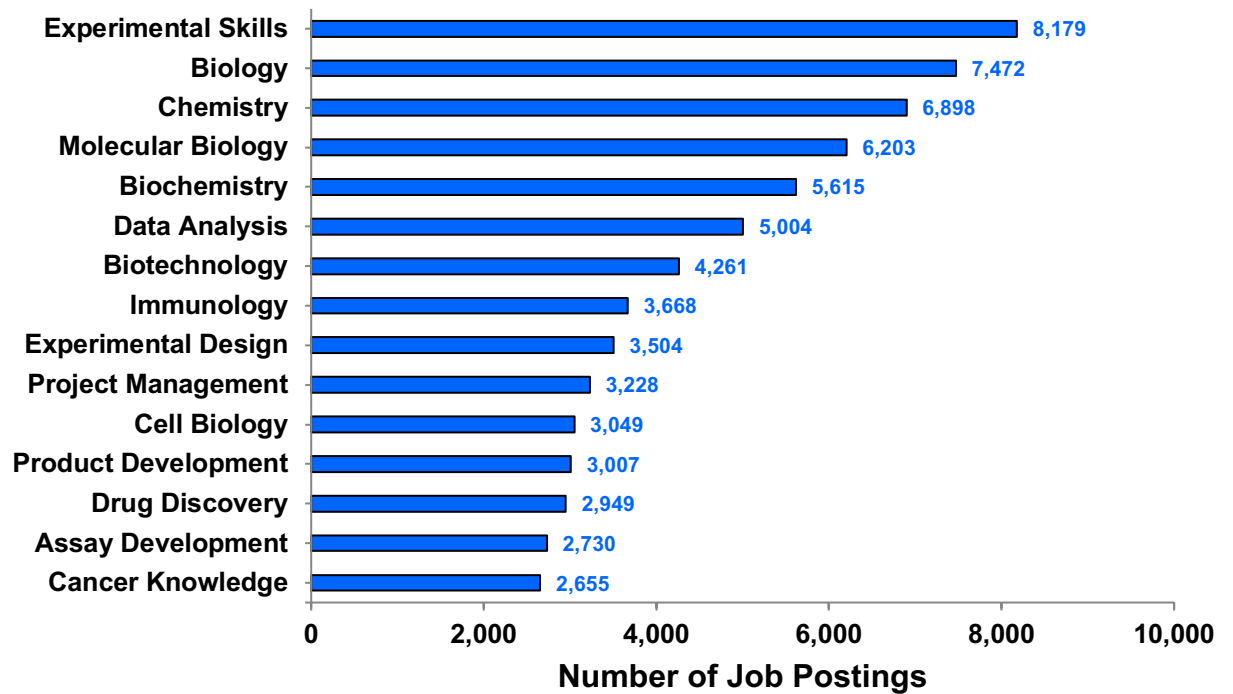
Industry Research

Number of job postings (nationwide):
22,848

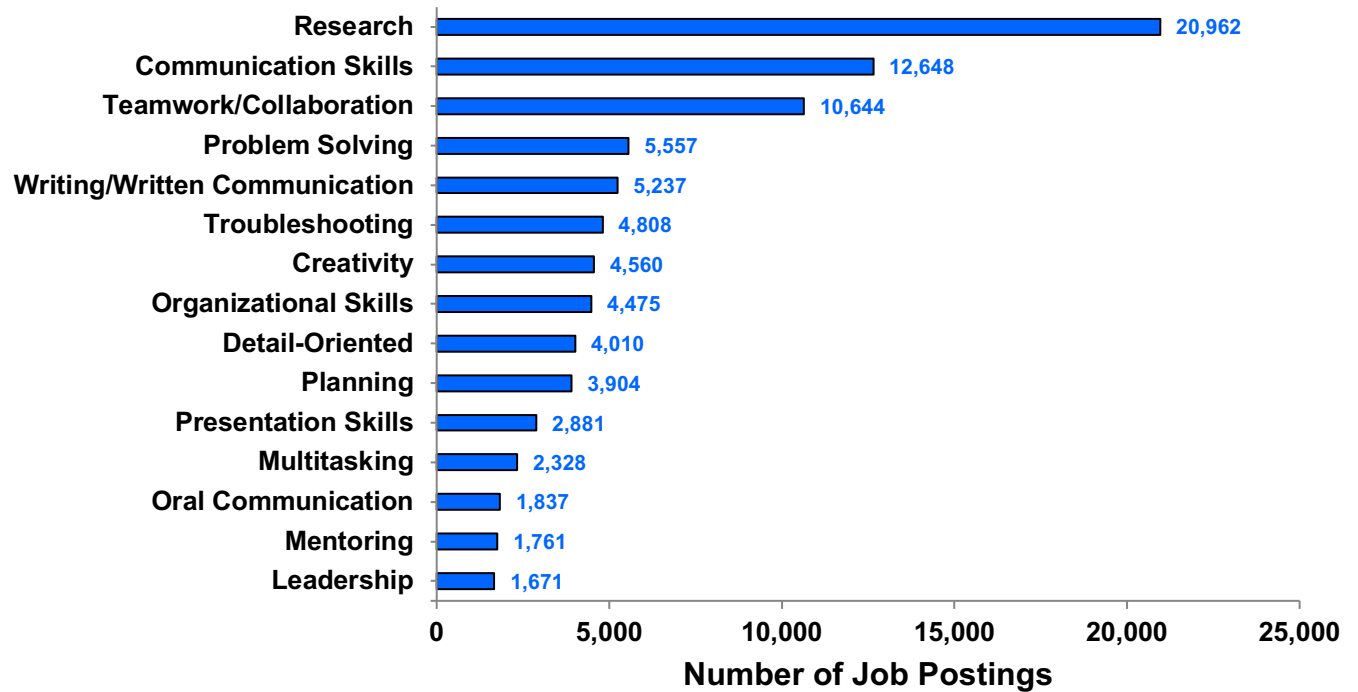
Job Titles: Industry Research 2021



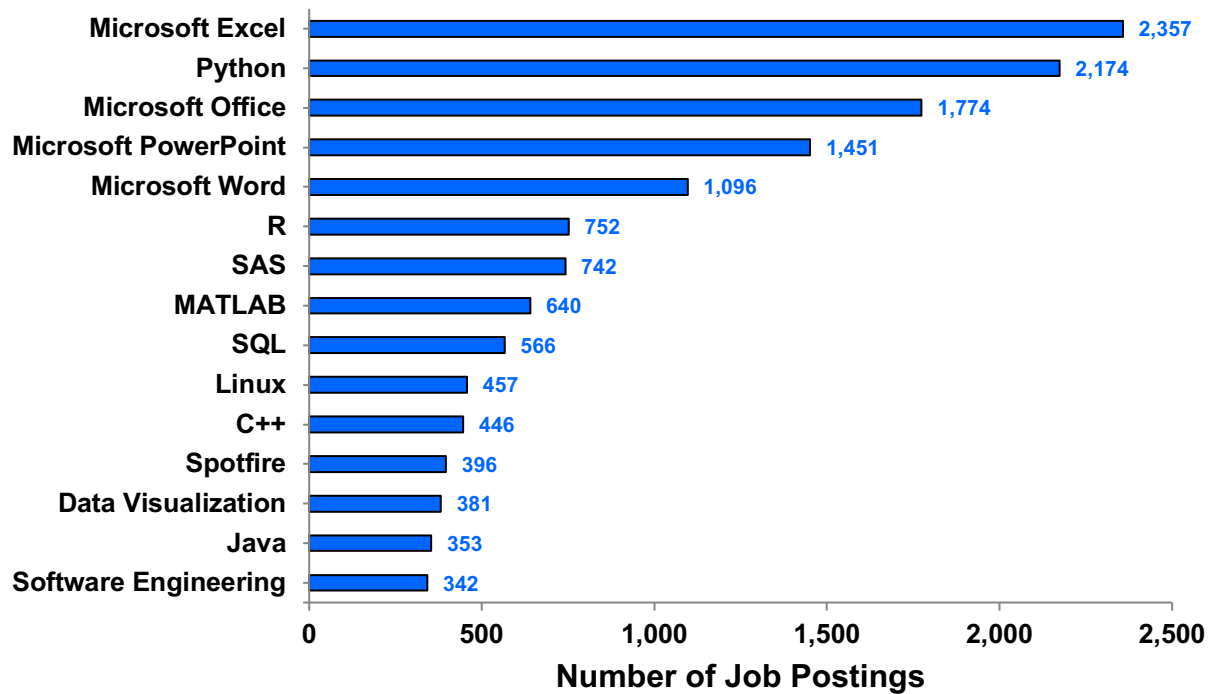
Specialized (Hard) Skills: Industry Research 2021



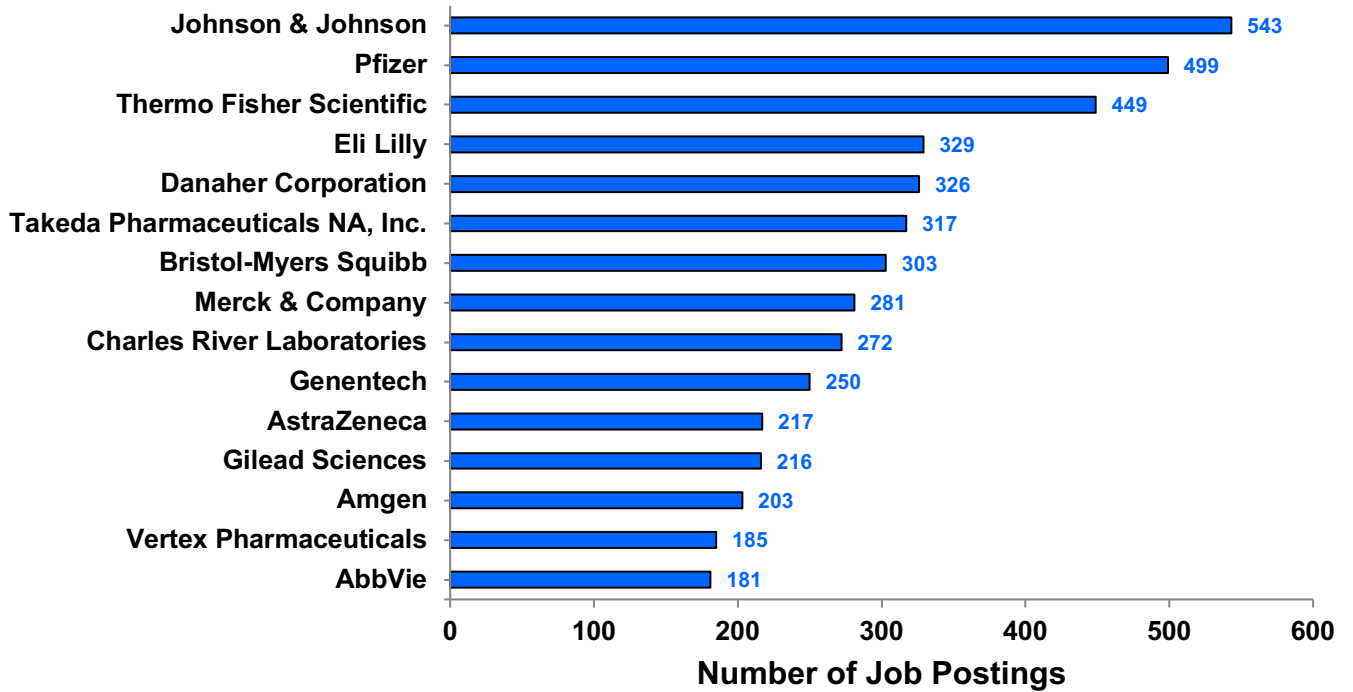
Baseline (Soft) Skills: Industry Research 2021



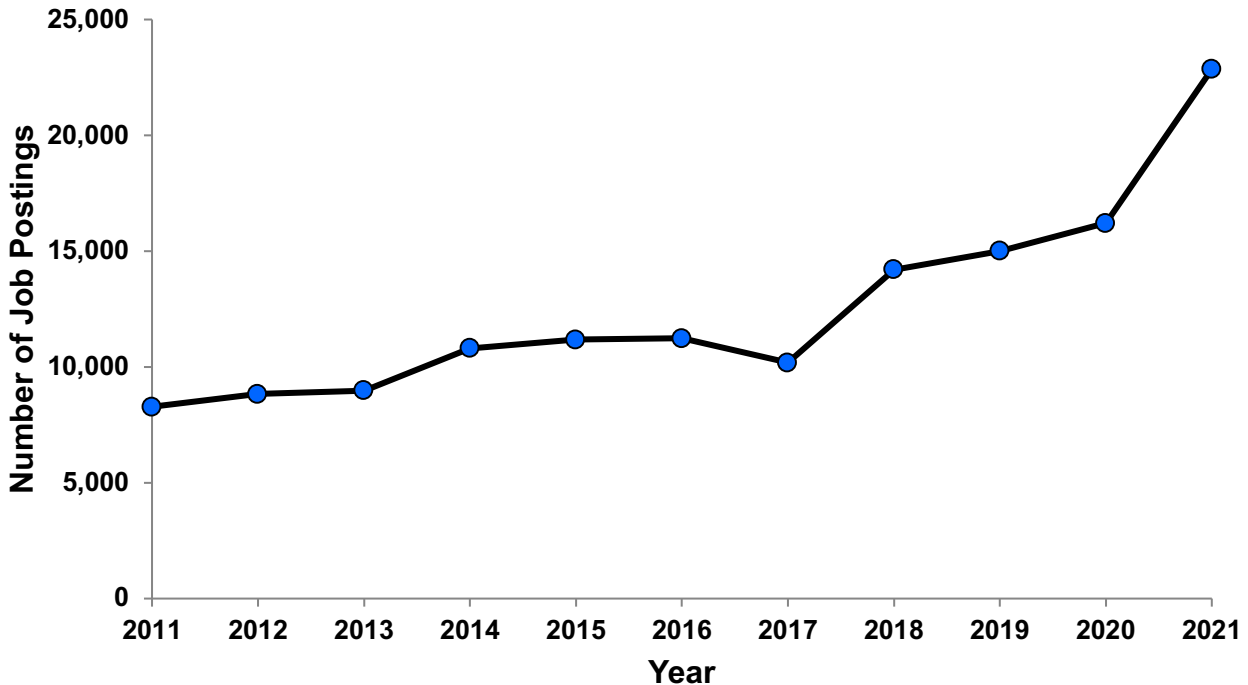
Computer Skills: Industry Research 2021



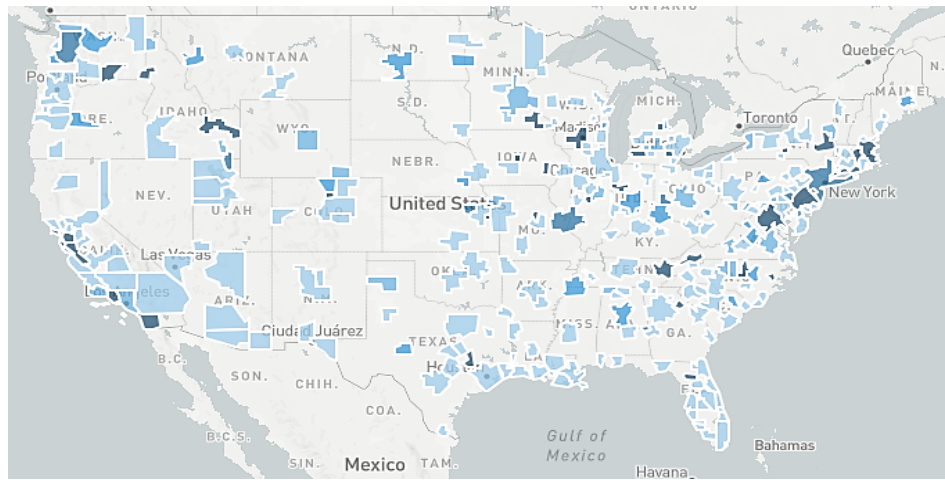
Employers: Industry Research 2021



Job Postings by Year: Industry Research 2011-2021



Demand Areas by MSA: Industry Research 2021

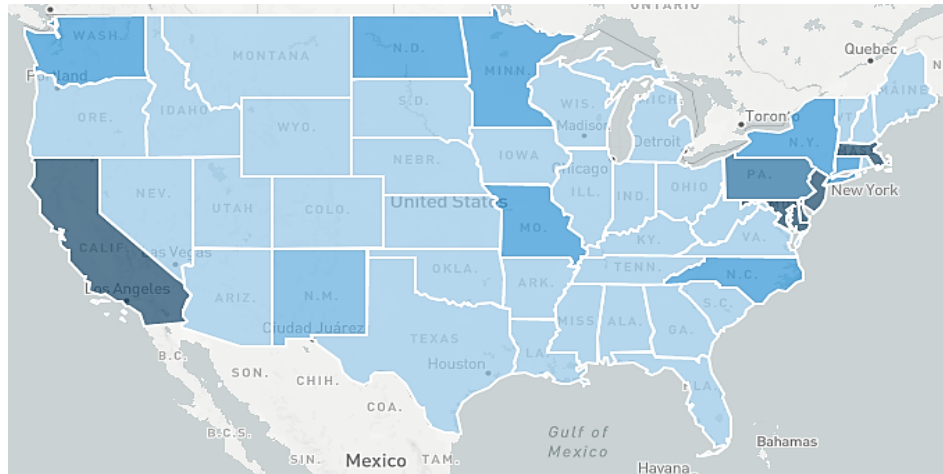


■ Much Lower
 ■ Lower
 ■ Average
 ■ Higher
 ■ Much Higher

Metropolitan Statistical Area (MSA)	Job Postings
San Francisco-Oakland-Hayward, CA	3,270
Boston-Cambridge-Nashua, MA-NH*	3,078
San Diego-Carlsbad, CA	1,752
New York-Newark-Jersey City, NY-NJ-PA	1,534
Washington-Arlington-Alexandria, DC-VA-MD-WV	1,499
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	973
Los Angeles-Long Beach-Anaheim, CA	644
Seattle-Tacoma-Bellevue, WA	605
San Jose-Sunnyvale-Santa Clara, CA	543
Chicago-Naperville-Elgin, IL-IN-WI	444
Durham-Chapel Hill, NC	369
St. Louis, MO-IL	285
Indianapolis-Carmel-Anderson, IN	244
Minneapolis-St. Paul-Bloomington, MN-WI	236
Houston-The Woodlands-Sugar Land, TX	196

*Metropolitan NECTA (New England City and Town Area)

Demand Areas by State: Industry Research 2021



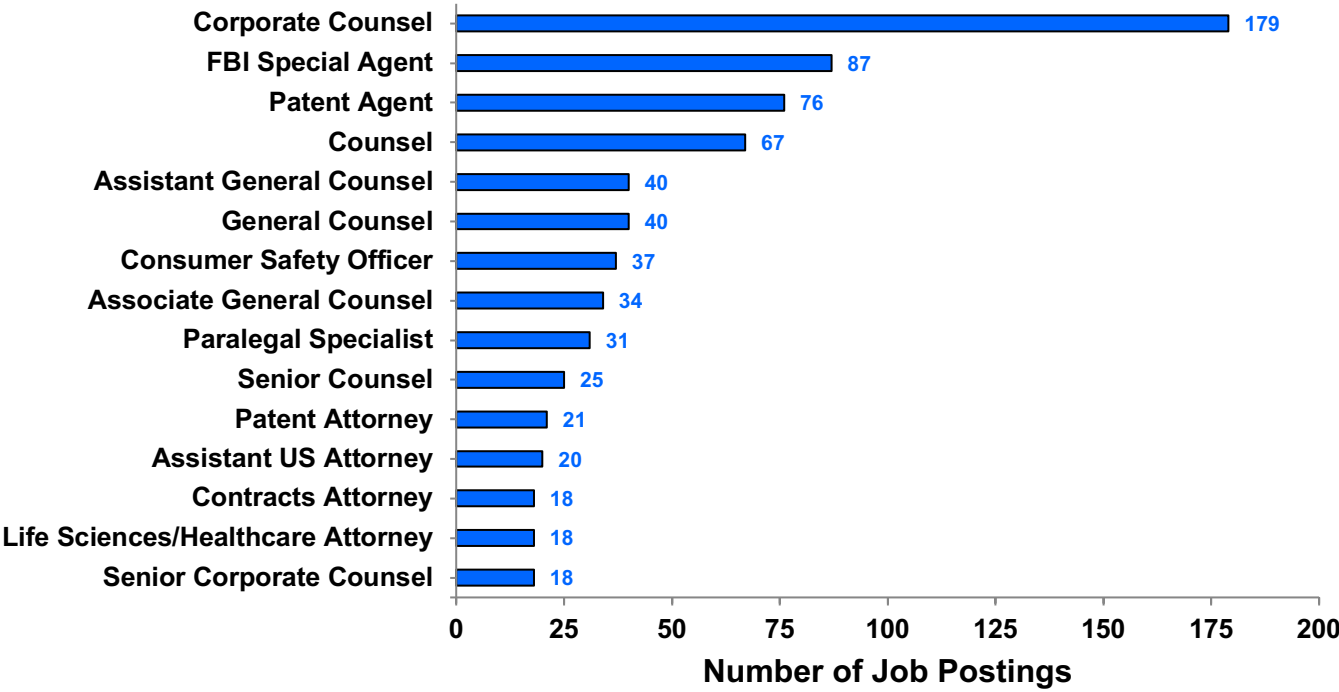
Much Lower
 Lower
 Average
 Higher
 Much Higher

State	Job Postings
California	6,651
Massachusetts	3,274
Maryland	1,326
New York	1,050
New Jersey	961
Pennsylvania	957
Washington	721
North Carolina	716
Texas	676
Illinois	517
Ohio	514
Minnesota	429
Missouri	418
Michigan	354
Connecticut	333

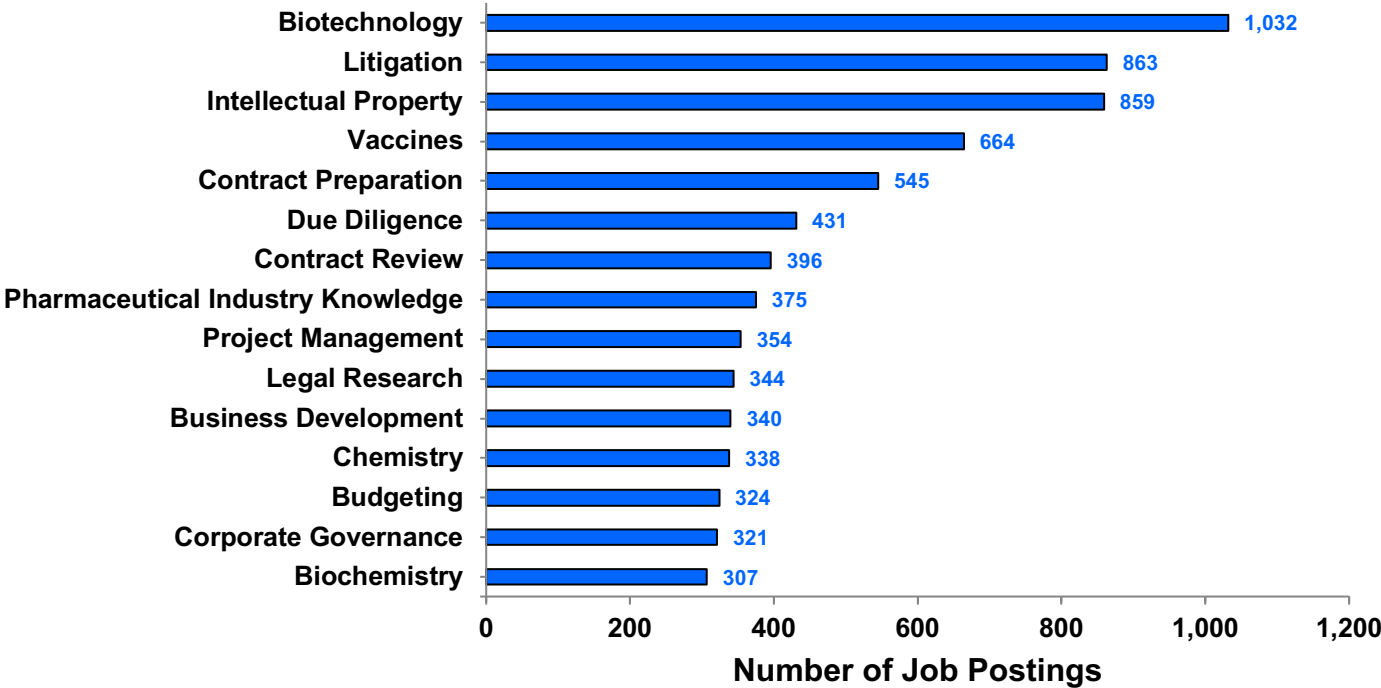
Law

Number of job postings (nationwide):
3,141

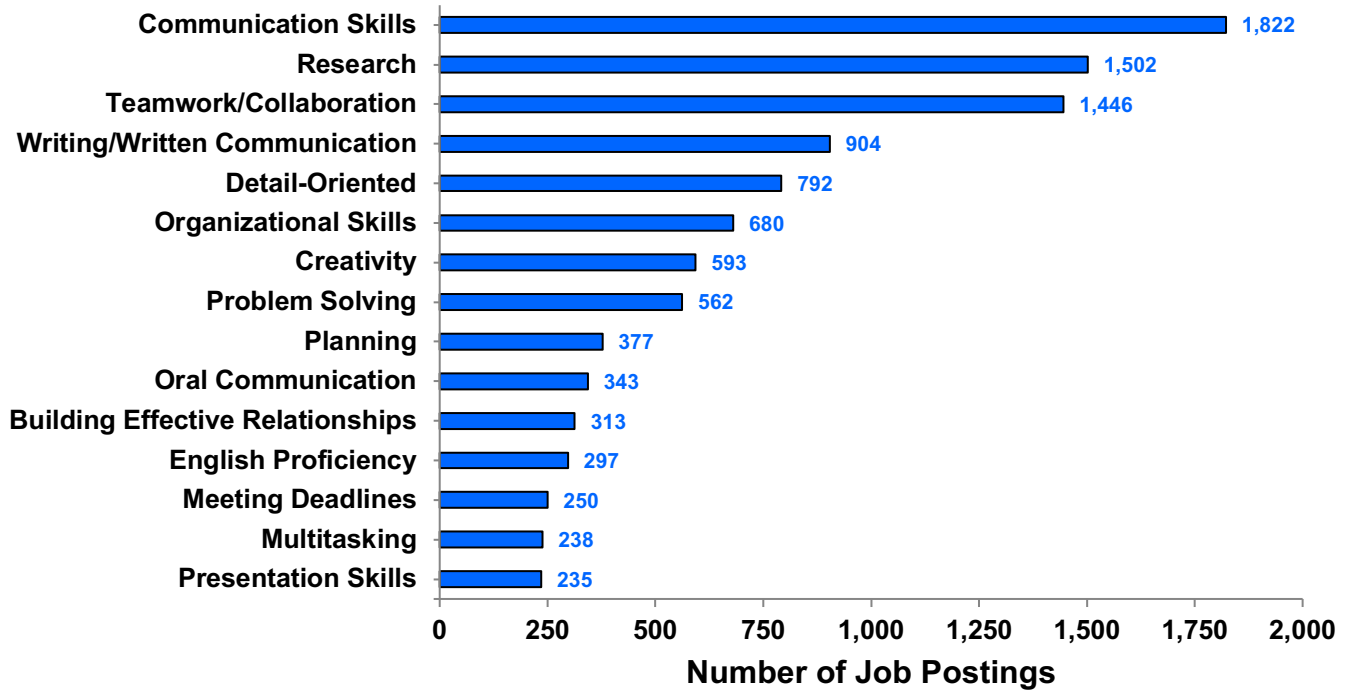
Job Titles: Law 2021



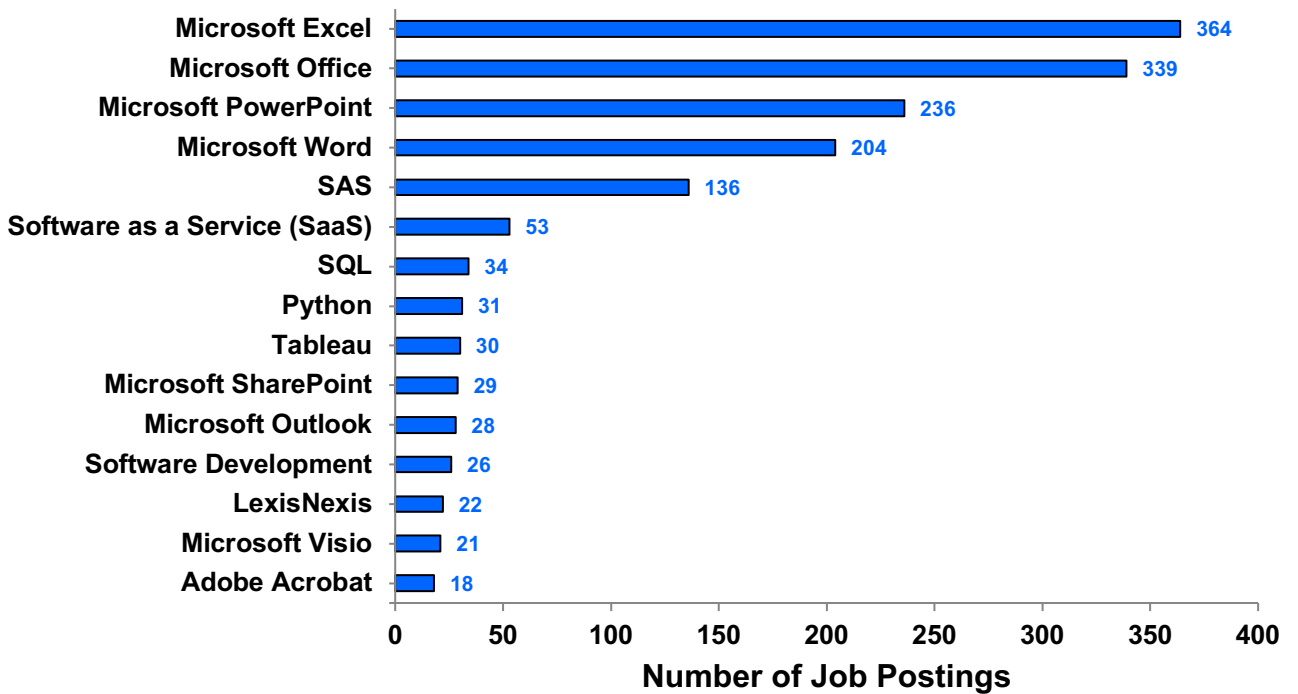
Specialized (Hard) Skills: Law 2021



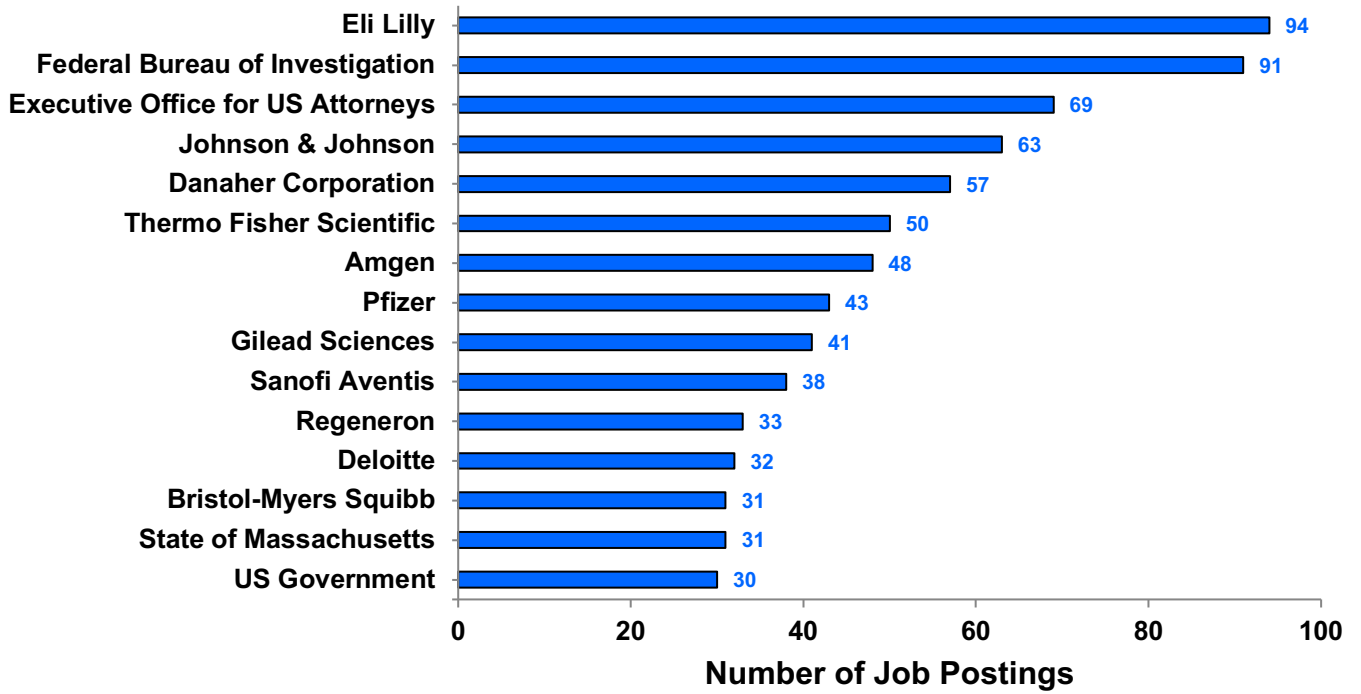
Baseline (Soft) Skills: Law 2021



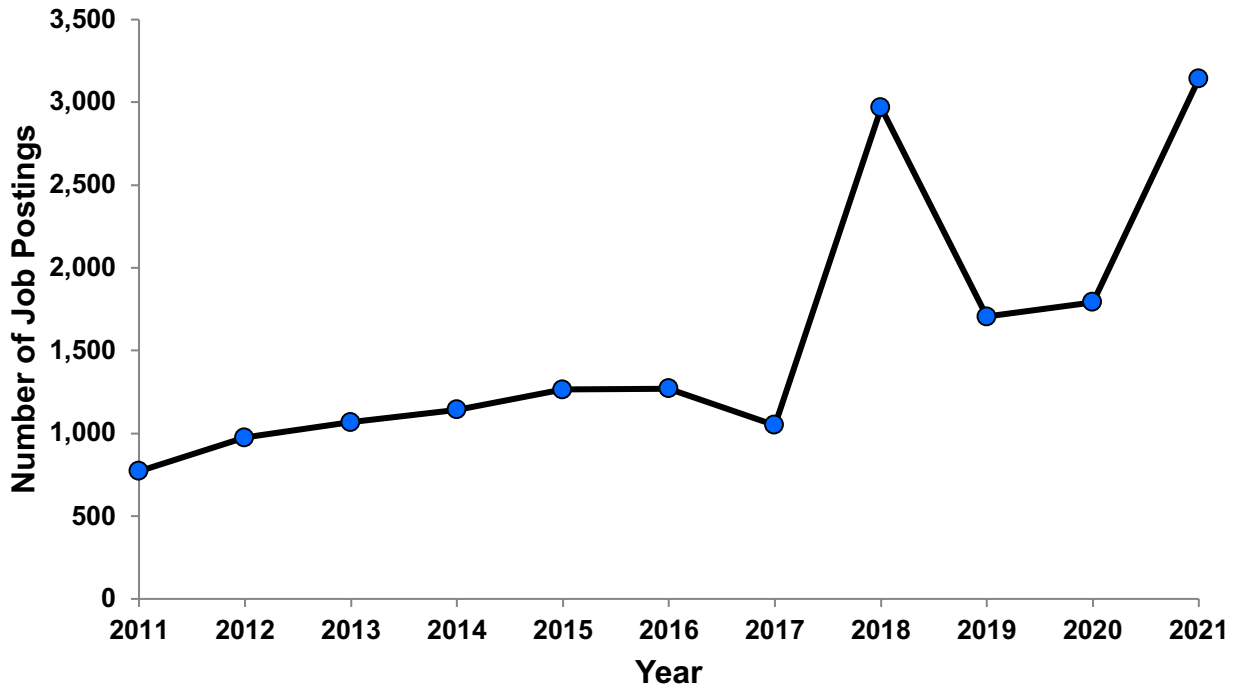
Computer Skills: Law 2021



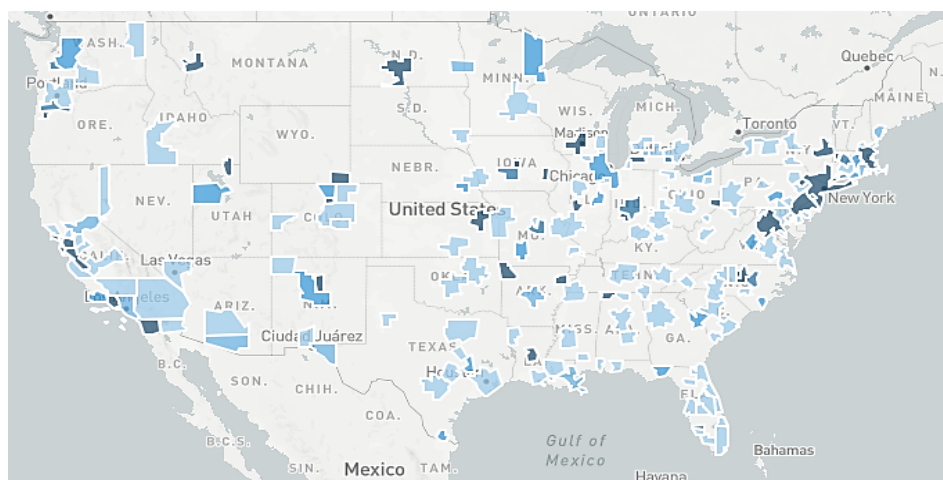
Employers: Law 2021



Job Postings by Year: Law 2011-2021



Demand Areas by MSA: Law 2021

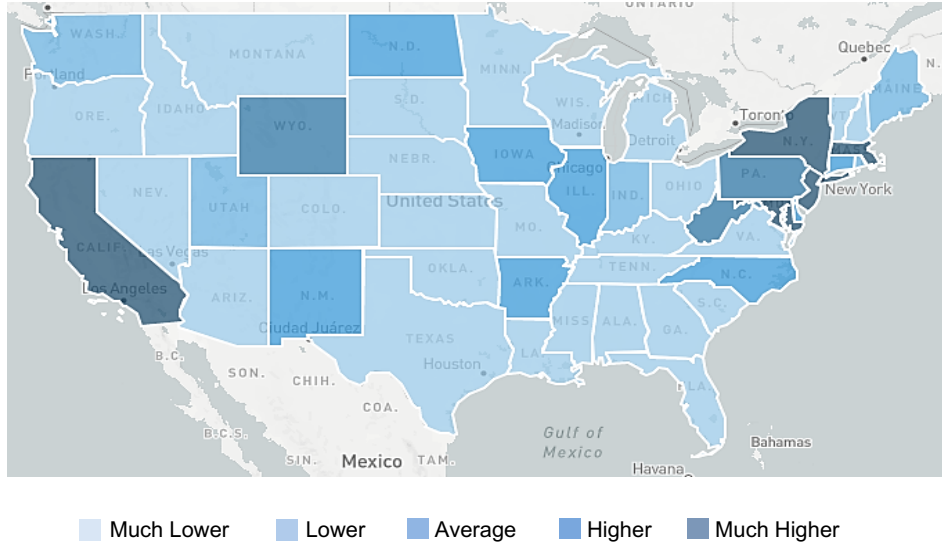


■ Much Lower
 ■ Lower
 ■ Average
 ■ Higher
 ■ Much Higher

Metropolitan Statistical Area (MSA)	Job Postings
San Francisco-Oakland-Hayward, CA	369
Boston-Cambridge-Nashua, MA-NH*	365
New York-Newark-Jersey City, NY-NJ-PA	347
Washington-Arlington-Alexandria, DC-VA-MD-WV	200
San Diego-Carlsbad, CA	147
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	116
Chicago-Naperville-Elgin, IL-IN-WI	104
Los Angeles-Long Beach-Anaheim, CA	104
San Jose-Sunnyvale-Santa Clara, CA	71
Seattle-Tacoma-Bellevue, WA	63
Durham-Chapel Hill, NC	50
Trenton, NJ	44
Oxnard-Thousand Oaks-Ventura, CA	41
Indianapolis-Carmel-Anderson, IN	38
Atlanta-Sandy Springs-Roswell, GA	35

*Metropolitan NECTA (New England City and Town Area)

Demand Areas by State: Law 2021

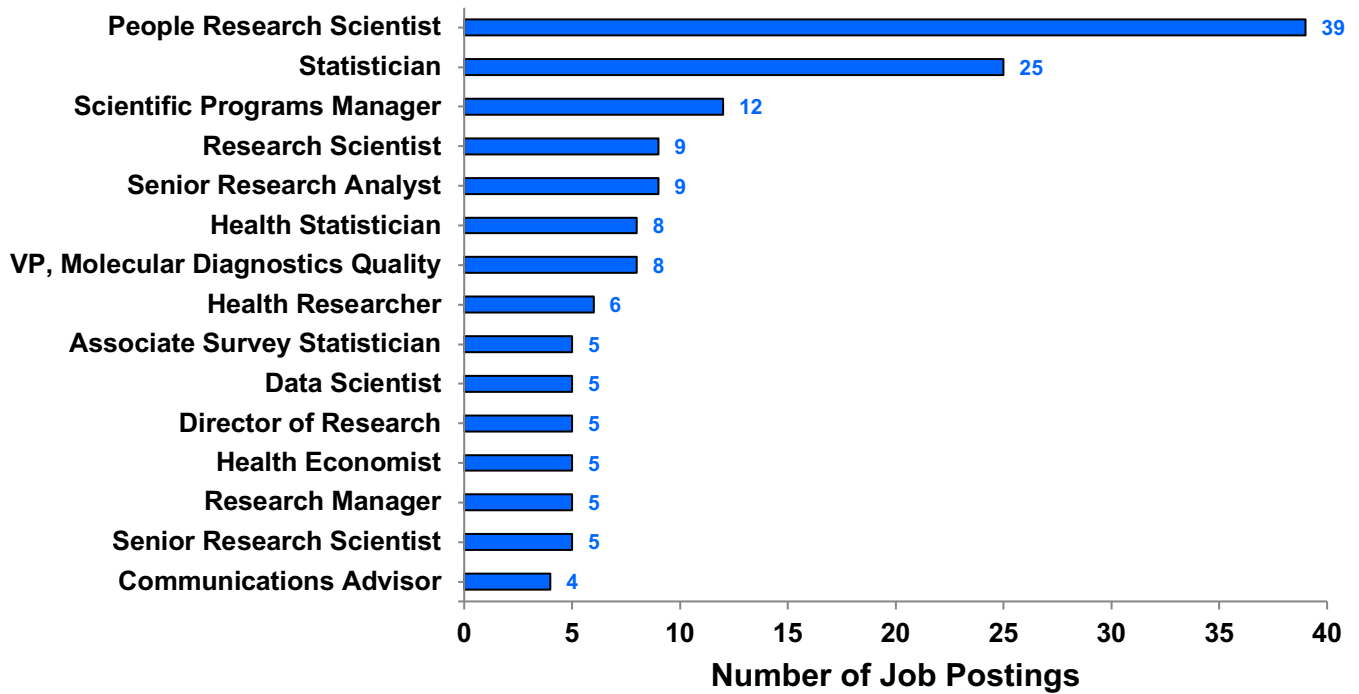


State	Job Postings
California	773
Massachusetts	398
New York	234
New Jersey	210
Pennsylvania	127
Illinois	118
District of Columbia	113
North Carolina	101
Texas	91
Maryland	83
Washington	73
Colorado	61
Florida	55
Ohio	49
Georgia	47

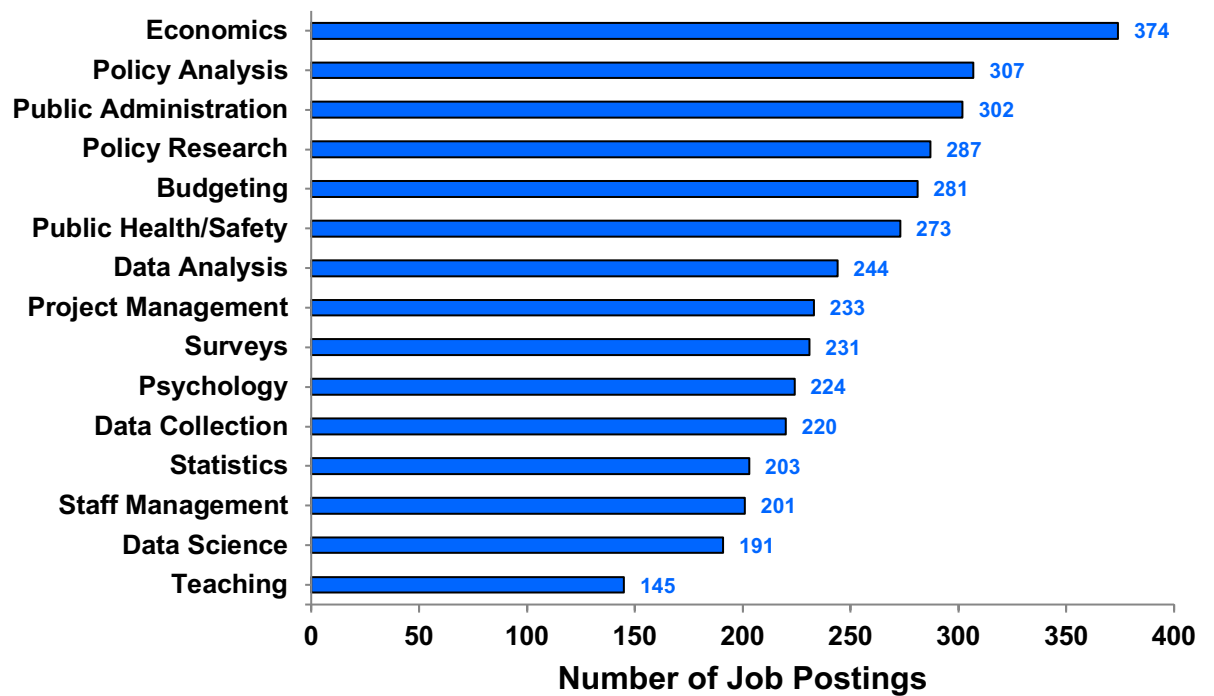
Policy

Number of job postings (nationwide):
961

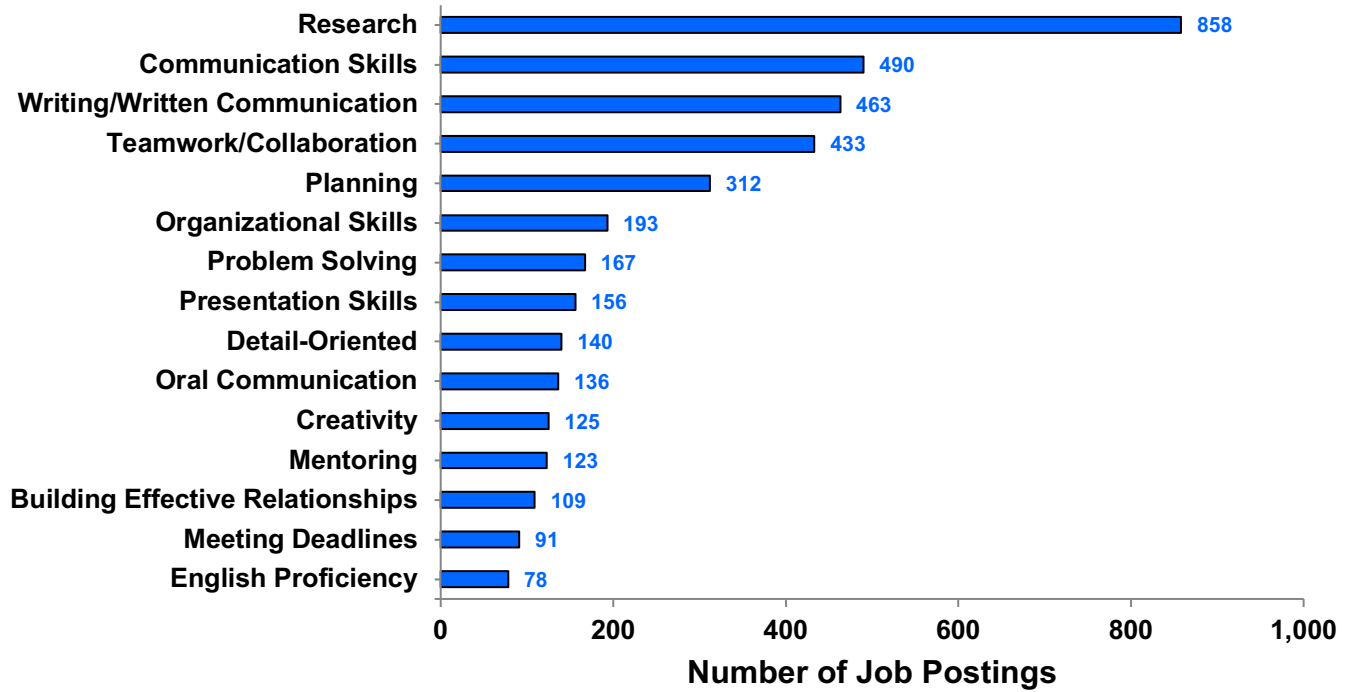
Job Titles: Policy 2021



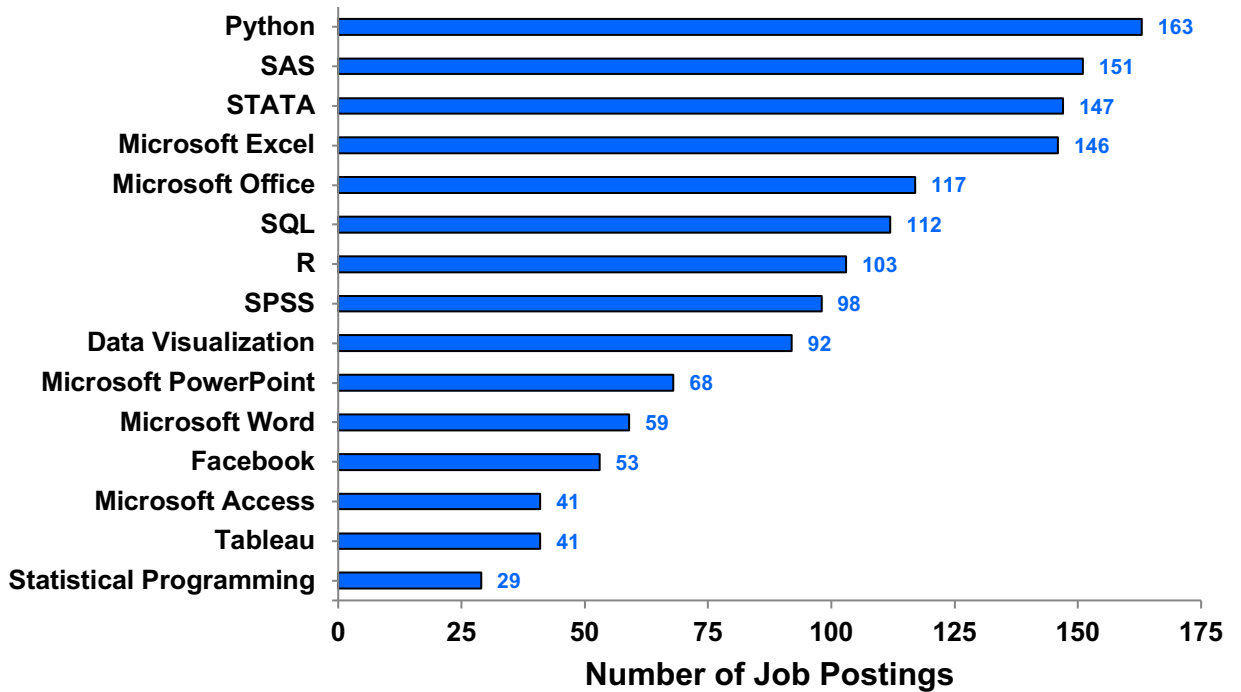
Specialized (Hard) Skills: Policy 2021



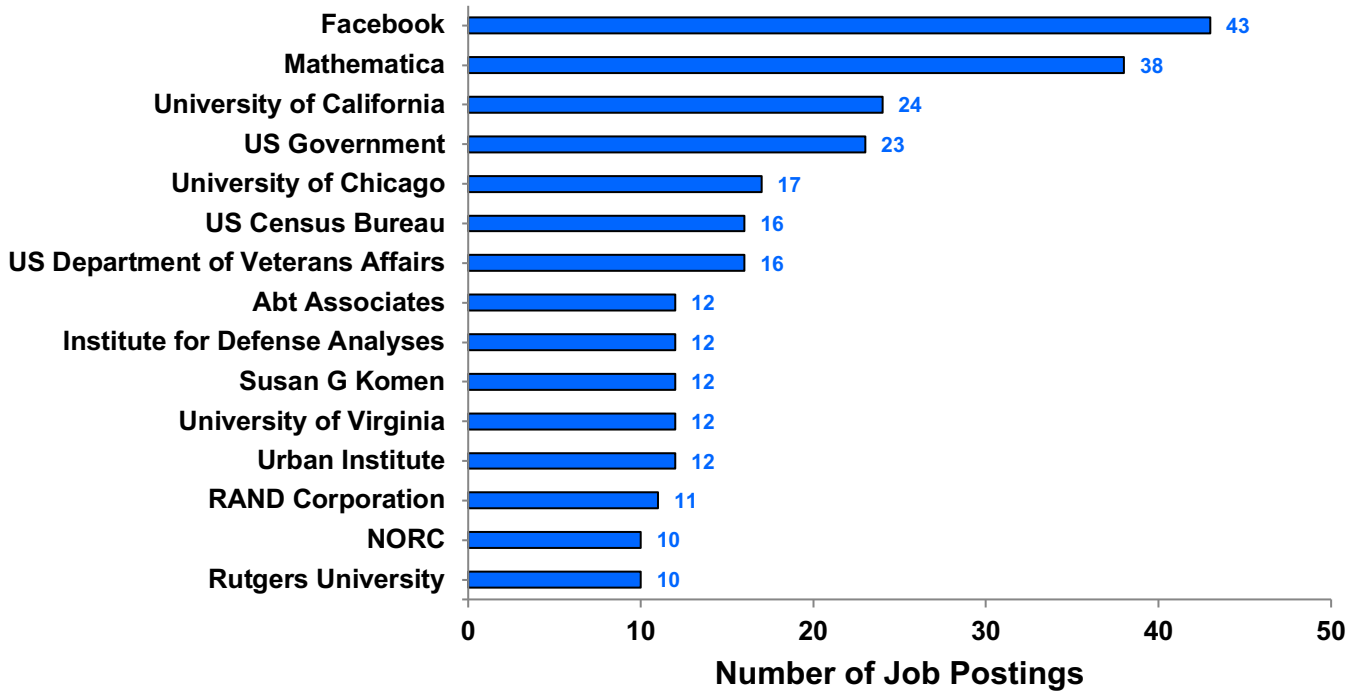
Baseline (Soft) Skills: Policy 2021



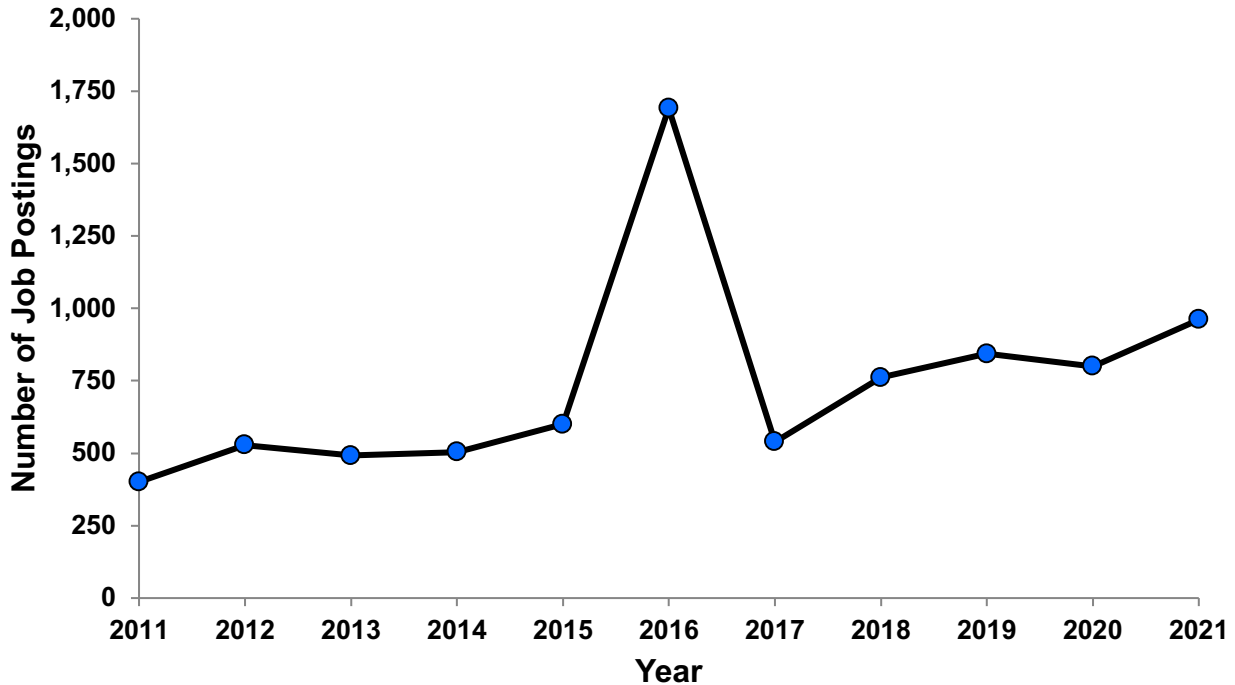
Computer Skills: Policy 2021



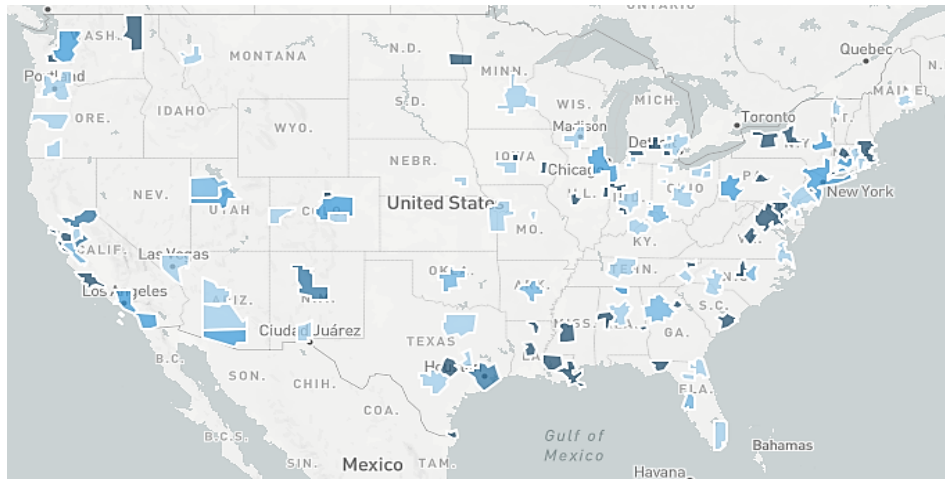
Employers: Policy 2021



Job Postings by Year: Policy 2011-2021



Demand Areas by MSA: Policy 2021

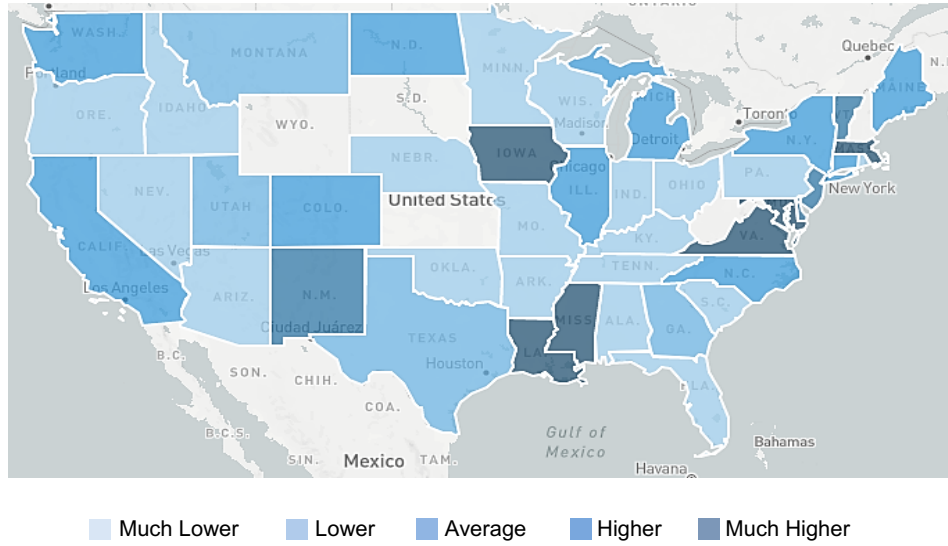


■ Much Lower
 ■ Lower
 ■ Average
 ■ Higher
 ■ Much Higher

Metropolitan Statistical Area (MSA)	Job Postings
Washington-Arlington-Alexandria, DC-VA-MD-WV	203
San Francisco-Oakland-Hayward, CA	64
New York-Newark-Jersey City, NY-NJ-PA	48
Boston-Cambridge-Nashua, MA-NH*	46
Los Angeles-Long Beach-Anaheim, CA	37
Chicago-Naperville-Elgin, IL-IN-WI	31
Baltimore-Columbia-Towson, MD	22
Denver-Aurora-Lakewood, CO	21
Houston-The Woodlands-Sugar Land, TX	20
Seattle-Tacoma-Bellevue, WA	20
Atlanta-Sandy Springs-Roswell, GA	18
Austin-Round Rock, TX	17
Durham-Chapel Hill, NC	16
Trenton, NJ	16
Dallas-Fort Worth-Arlington, TX	15

*Metropolitan NECTA (New England City and Town Area)

Demand Areas by State: Policy 2021

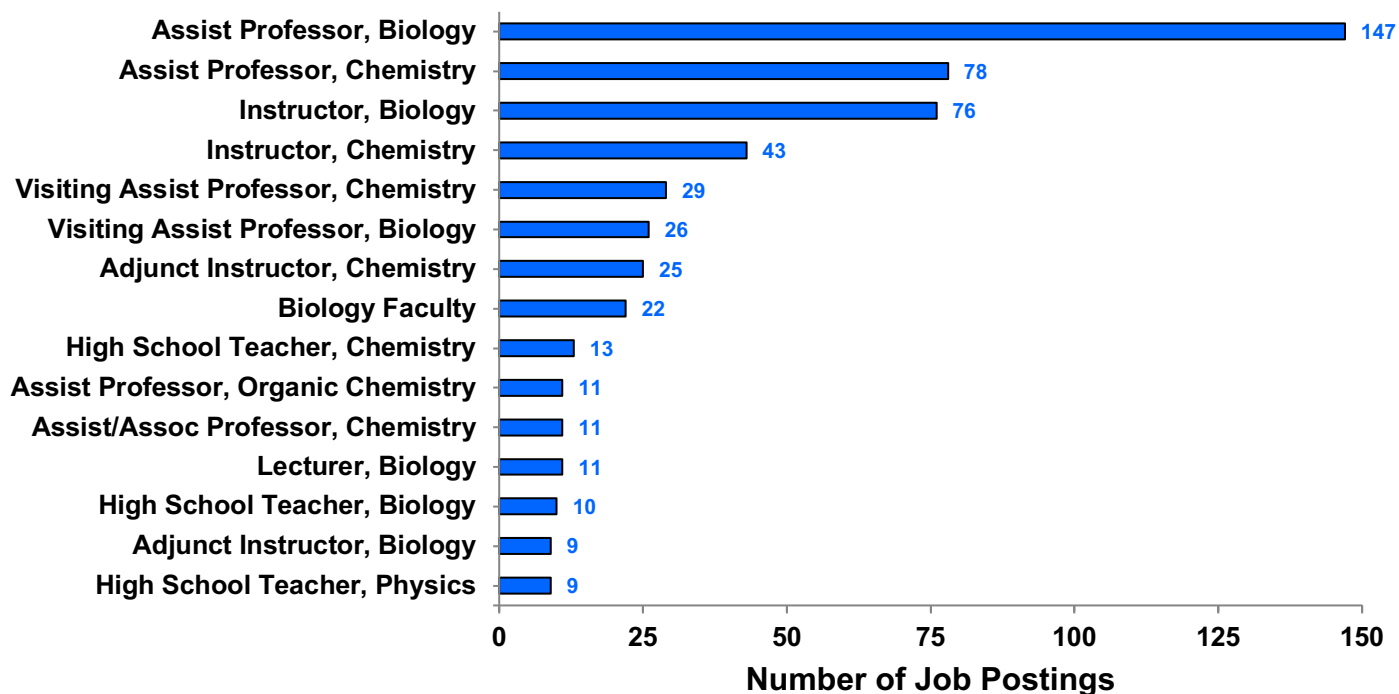


State	Job Postings
California	142
Maryland	91
District of Columbia	86
Virginia	60
Texas	58
Massachusetts	55
New York	50
Illinois	33
New Jersey	30
North Carolina	30
Colorado	29
Washington	28
Michigan	24
Georgia	22
Louisiana	20

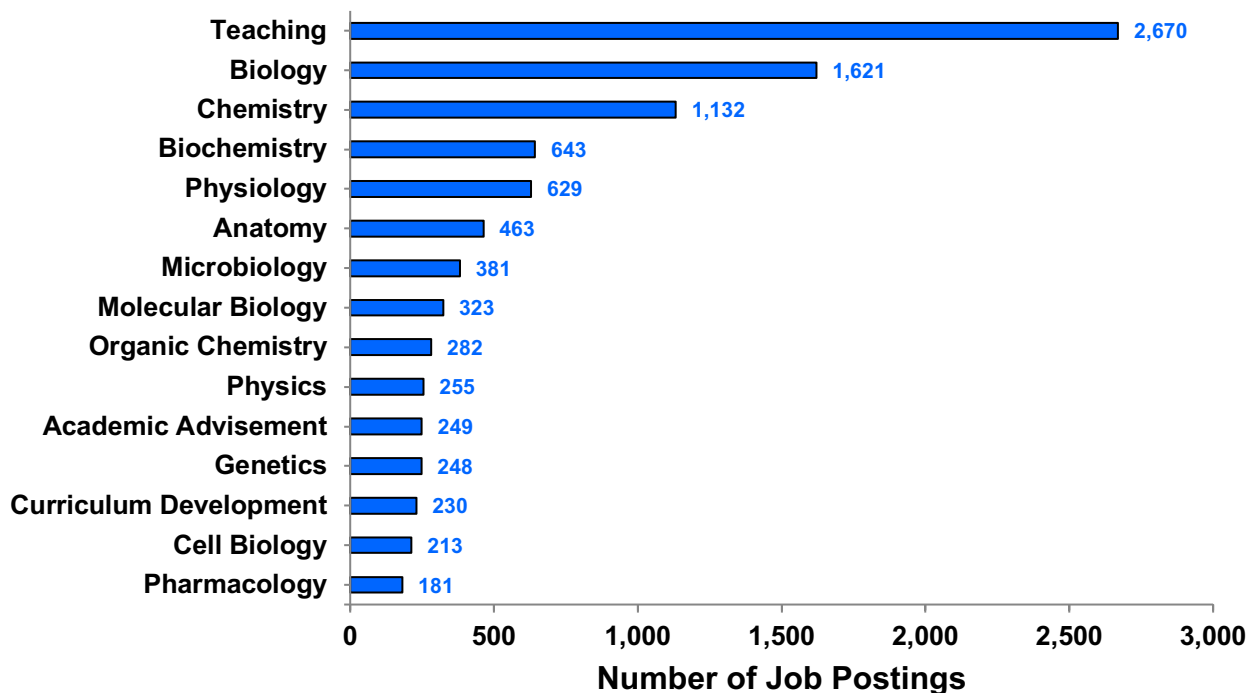
Teaching

Number of job postings (nationwide):
2,848

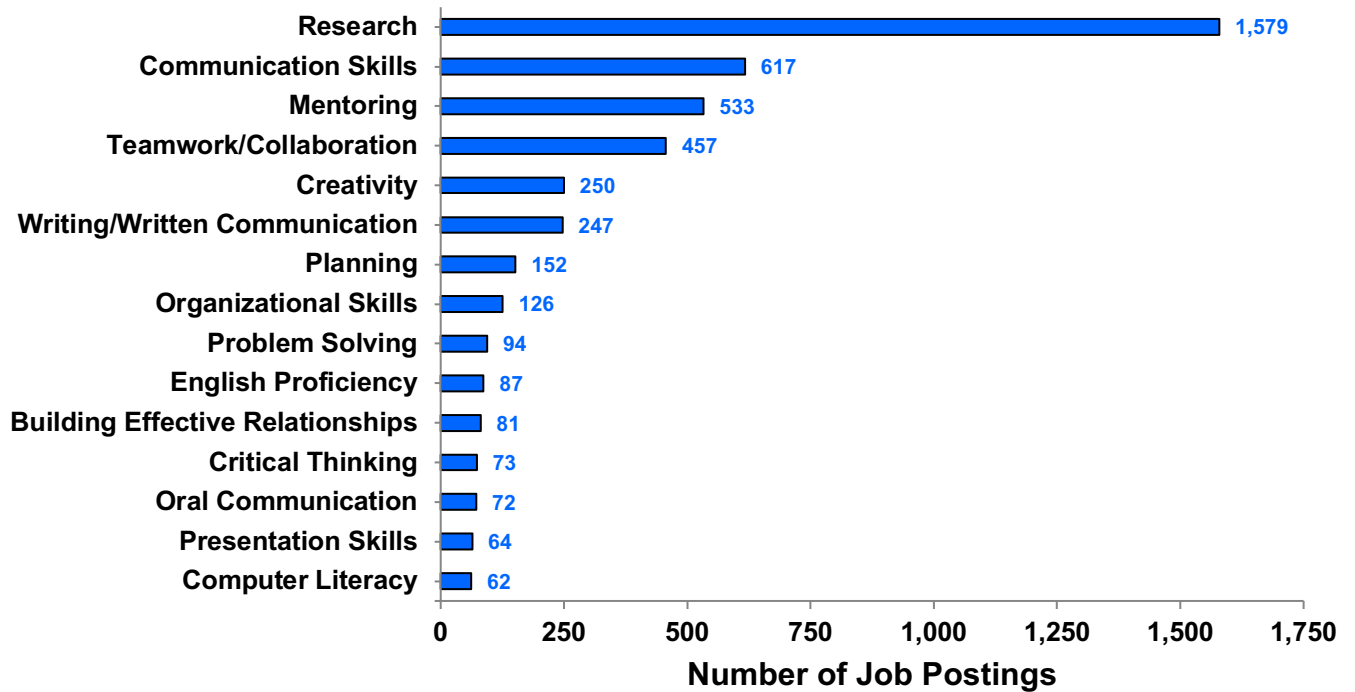
Job Titles: Teaching 2021



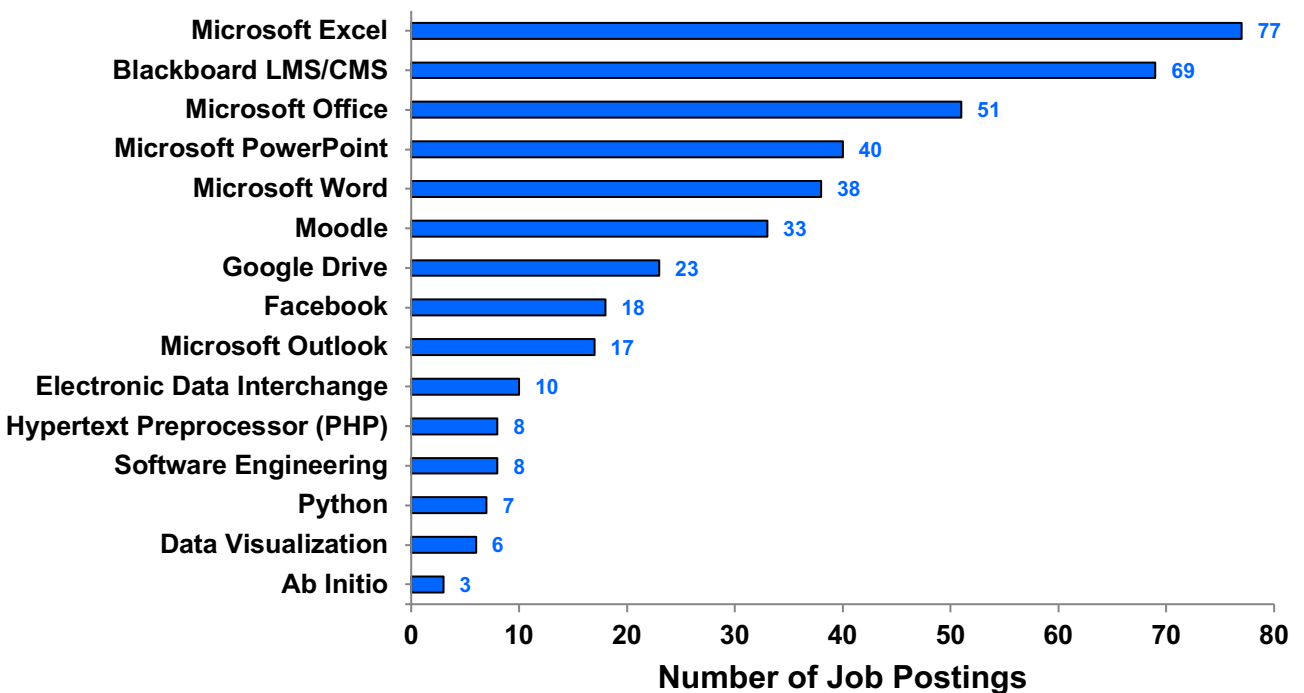
Specialized (Hard) Skills: Teaching 2021



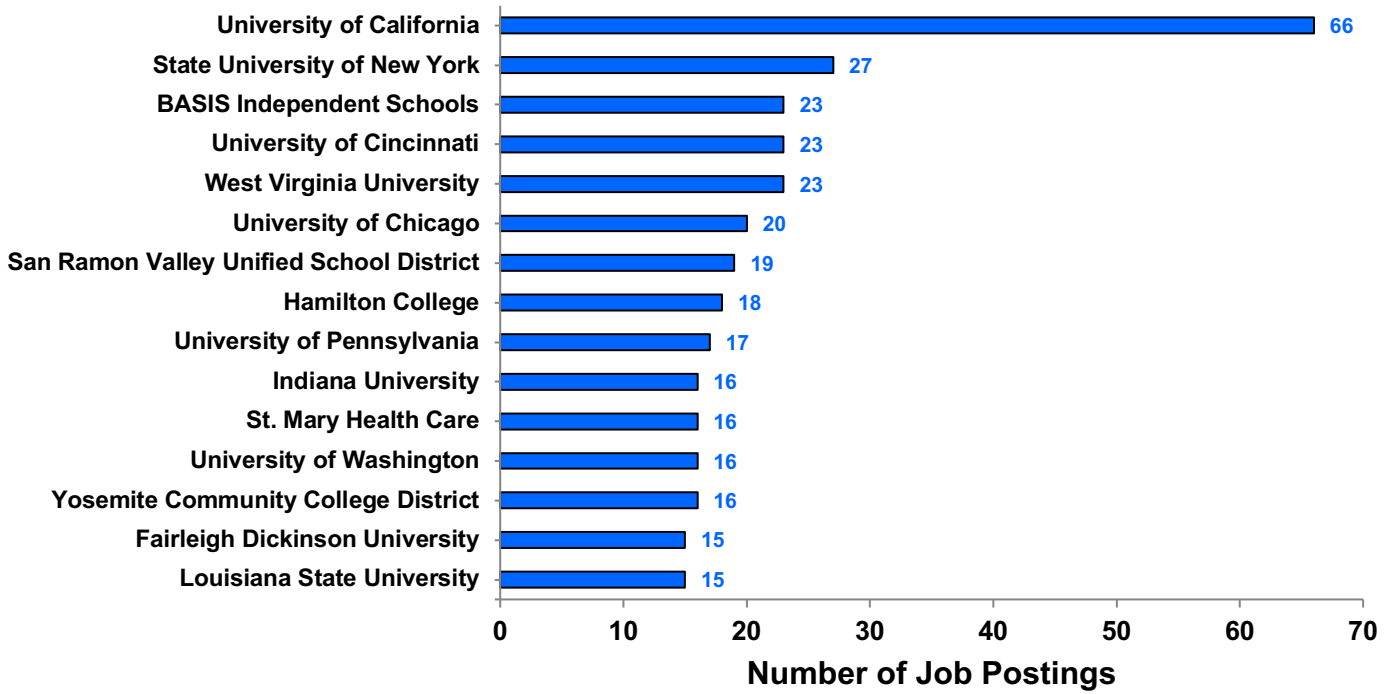
Baseline (Soft) Skills: Teaching 2021



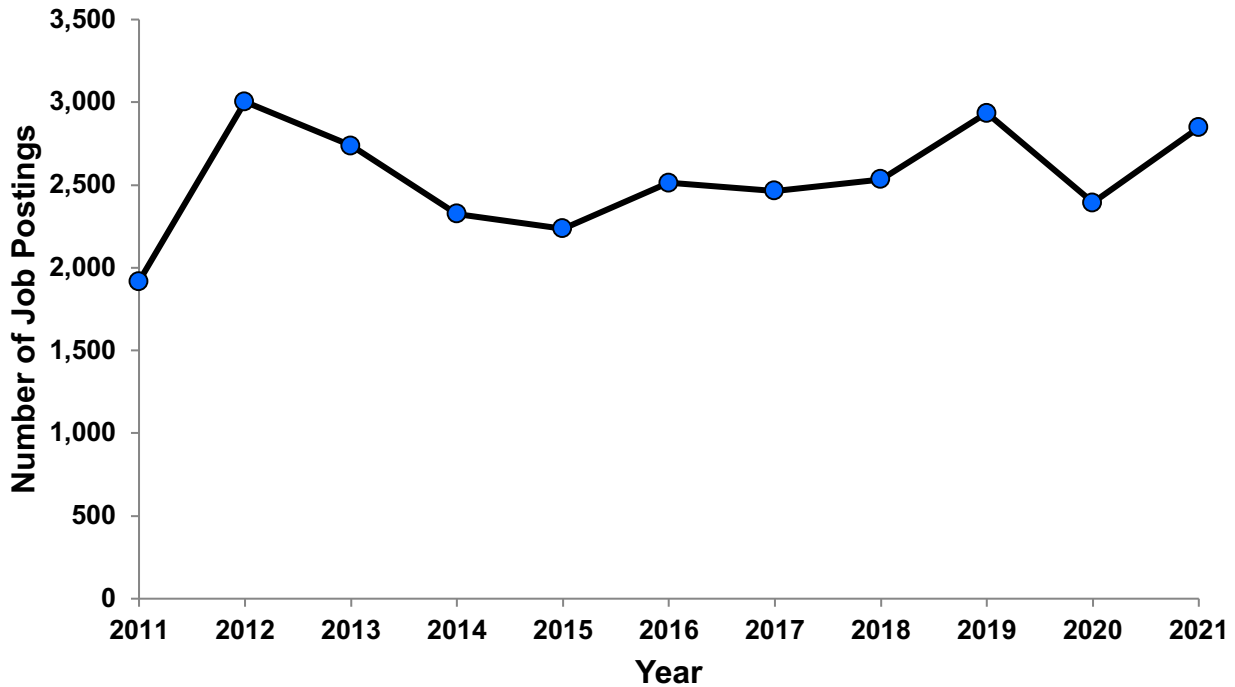
Computer Skills: Teaching 2021



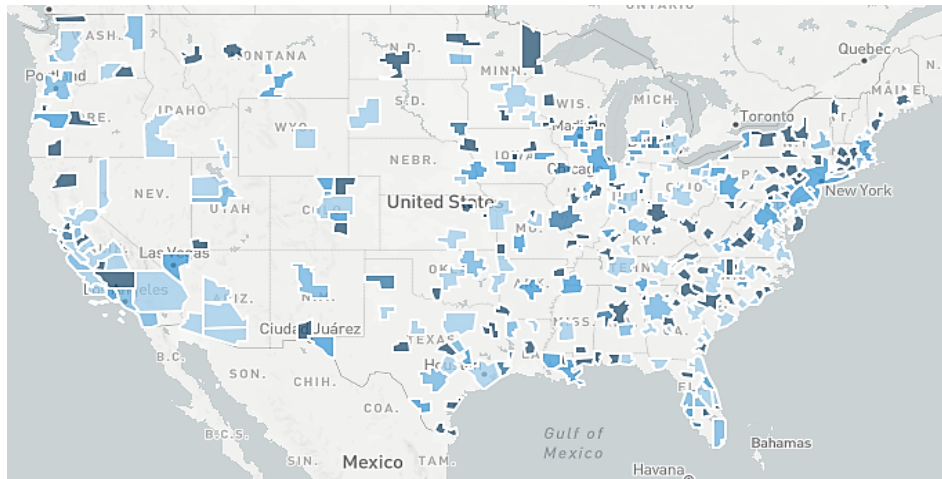
Employers: Teaching 2021



Job Postings by Year: Teaching 2011-2021



Demand Areas by MSA: Teaching 2021

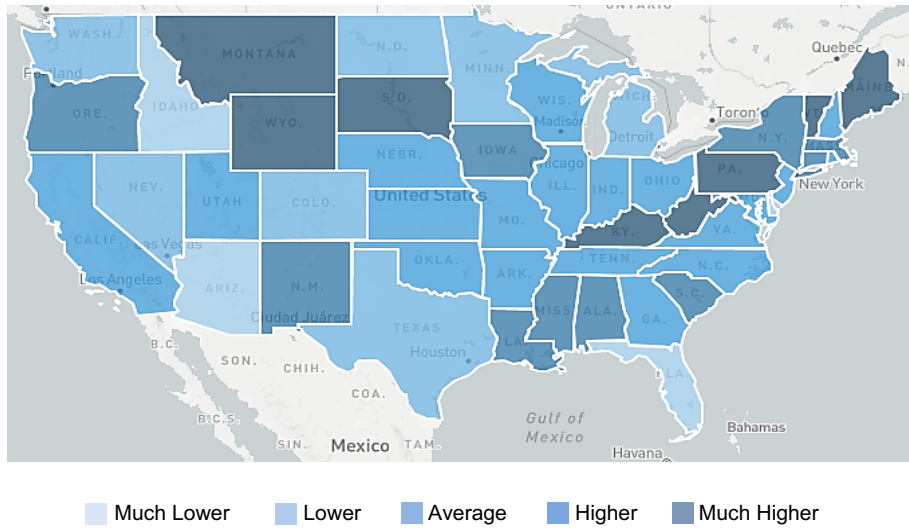


Much Lower
 Lower
 Average
 Higher
 Much Higher

Metropolitan Statistical Area (MSA)	Job Postings
New York-Newark-Jersey City, NY-NJ-PA	161
Chicago-Naperville-Elgin, IL-IN-WI	101
Los Angeles-Long Beach-Anaheim, CA	100
San Francisco-Oakland-Hayward, CA	87
Boston-Cambridge-Nashua, MA-NH*	81
Washington-Arlington-Alexandria, DC-VA-MD-WV	66
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	62
Atlanta-Sandy Springs-Roswell, GA	43
Cincinnati, OH-KY-IN	38
Miami-Fort Lauderdale-West Palm Beach, FL	38
St. Louis, MO	34
Seattle-Tacoma-Bellevue, WA	32
Dallas-Fort Worth-Arlington, TX	31
Denver-Aurora-Lakewood, CO	29
Houston-The Woodlands-Sugar Land, TX	28

*Metropolitan NECTA (New England City and Town Area)

Demand Areas by State: Teaching 2021



State	Job Postings
California	329
New York	182
Texas	175
Pennsylvania	149
Florida	117
Illinois	117
Massachusetts	113
North Carolina	101
Georgia	93
New Jersey	86
Ohio	85
Virginia	68
Indiana	64
Colorado	62
Maryland	54