

Data Scientists in the United States

Contents

What is Lightcast Data?	1
Report Parameters	2
Executive Summary	3
Jobs	4
Compensation	6
Job Posting Activity	7
Demographics	12
Occupational Programs	15
Appendix A	17

What is Lightcast Data?

Lightcast data is a hybrid dataset derived from official government sources such as the US Census Bureau, Bureau of Economic Analysis, and Bureau of Labor Statistics. Leveraging the unique strengths of each source, our data modeling team creates an authoritative dataset that captures more than 99% of all workers in the United States. This core offering is then enriched with data from online social profiles, resumés, and job postings to give you a complete view of the workforce.

Lightcast data is frequently cited in major publications such as *The Atlantic*, *Forbes*, *Harvard Business Review*, *The New York Times*, *The Wall Street Journal*, and *USA Today*.



Report Parameters

1 Occupation

15-2051 Data Scientists

1 Nation

0 United States

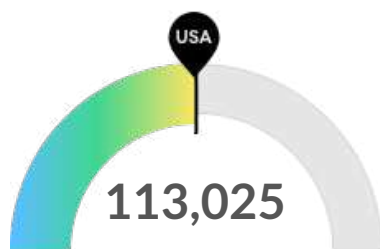
Class of Worker

QCEW Employees

The information in this report pertains to the chosen occupation and geographical area.

Executive Summary

Average Job Posting Demand Over an Average Supply of Regional Jobs



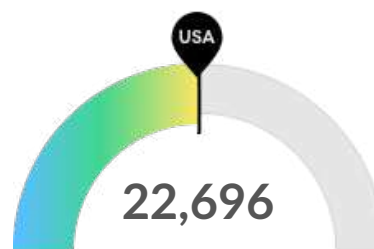
Jobs (2022)

United States is about average for this kind of job. The national average for an area this size is 113,025* employees, while there are 113,025 here.



Compensation

Earnings are about average in United States. The national median salary for Data Scientists is \$100,922, compared to \$100,922 here.



Job Posting Demand

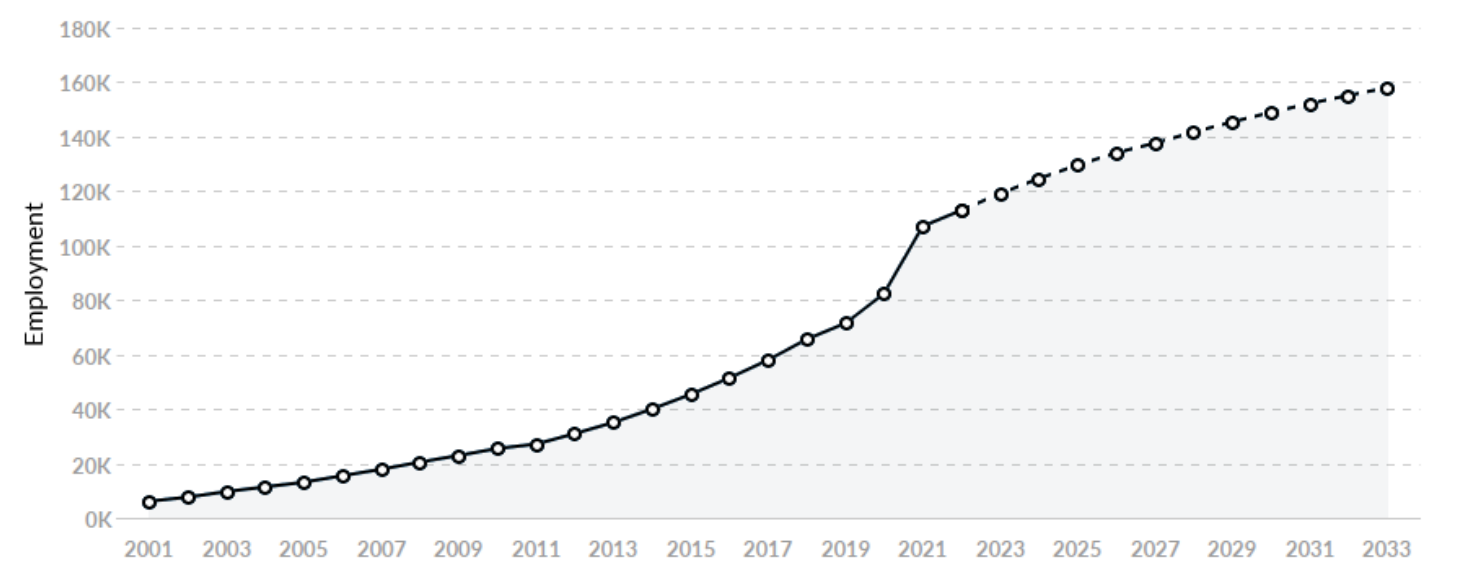
Job posting activity is about average in United States. The national average for an area this size is 22,696* job postings/mo, while there are 22,696 here.

*National average values are derived by taking the national value for Data Scientists and scaling it down to account for the difference in overall workforce size between the nation and United States. In other words, the values represent the national average adjusted for region size.

Jobs

Regional Employment Is About Equal to the National Average

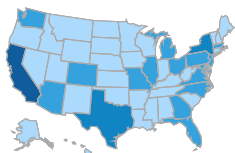
An average area of this size typically has 113,025* jobs, while there are 113,025 here.



	Region	2022 Jobs	2033 Jobs	Change	% Change
●	United States	113,025	157,917	44,891	39.7%
●	National Average	113,025	157,917	44,891	39.7%

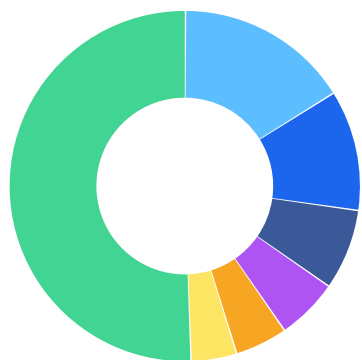
*National average values are derived by taking the national value for Data Scientists and scaling it down to account for the difference in overall workforce size between the nation and United States. In other words, the values represent the national average adjusted for region size.

Regional Breakdown



State	2022 Jobs
California	18,599
New York	10,435
Texas	6,909
North Carolina	5,259
Florida	5,076

Most Jobs are Found in the Computer Systems Design and Related Services Industry Sector

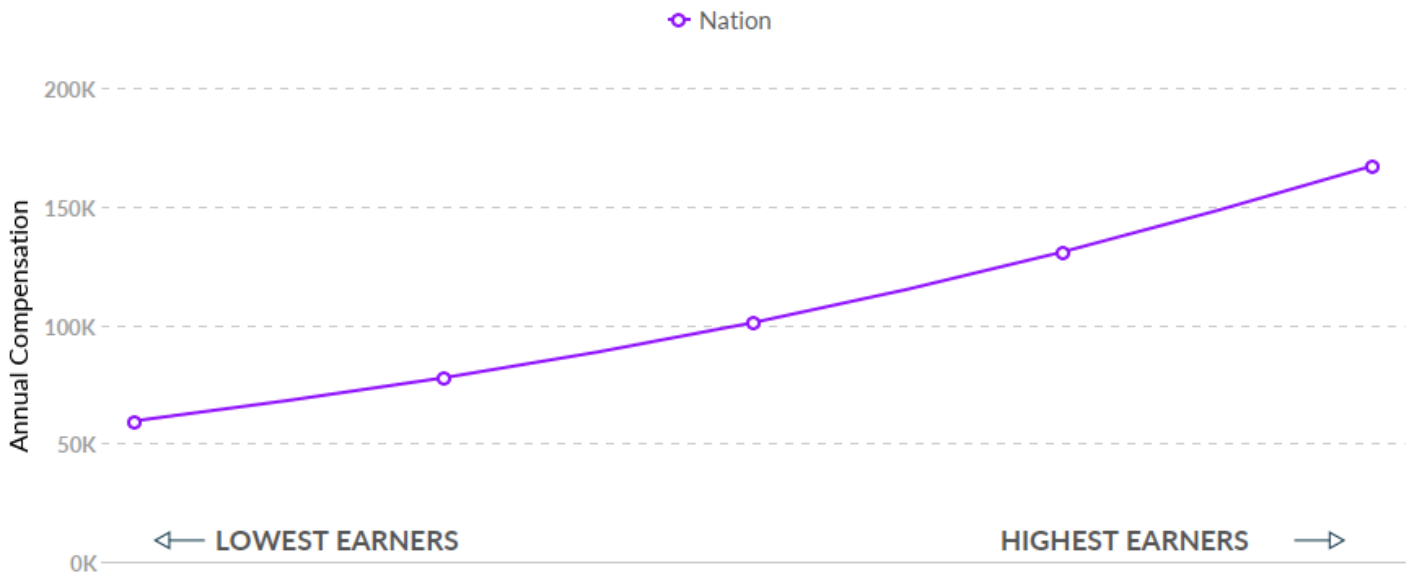


Industry	% of Occupation in Industry (2022)
Computer Systems Design and Related Services	16.0%
Management of Companies and Enterprises	11.1%
Management, Scientific, and Technical Consulting Services	7.4%
Scientific Research and Development Services	5.7%
Depository Credit Intermediation	4.8%
Insurance Carriers	4.2%
Other	50.6%

Compensation

Regional Compensation Is the Same Cost as the Nation

In 2021, the median compensation for Data Scientists in the United States is \$100,922.



Job Posting Activity



295,054 Unique Job Postings

The number of unique postings for this job from Jan 2022 to Jan 2023.



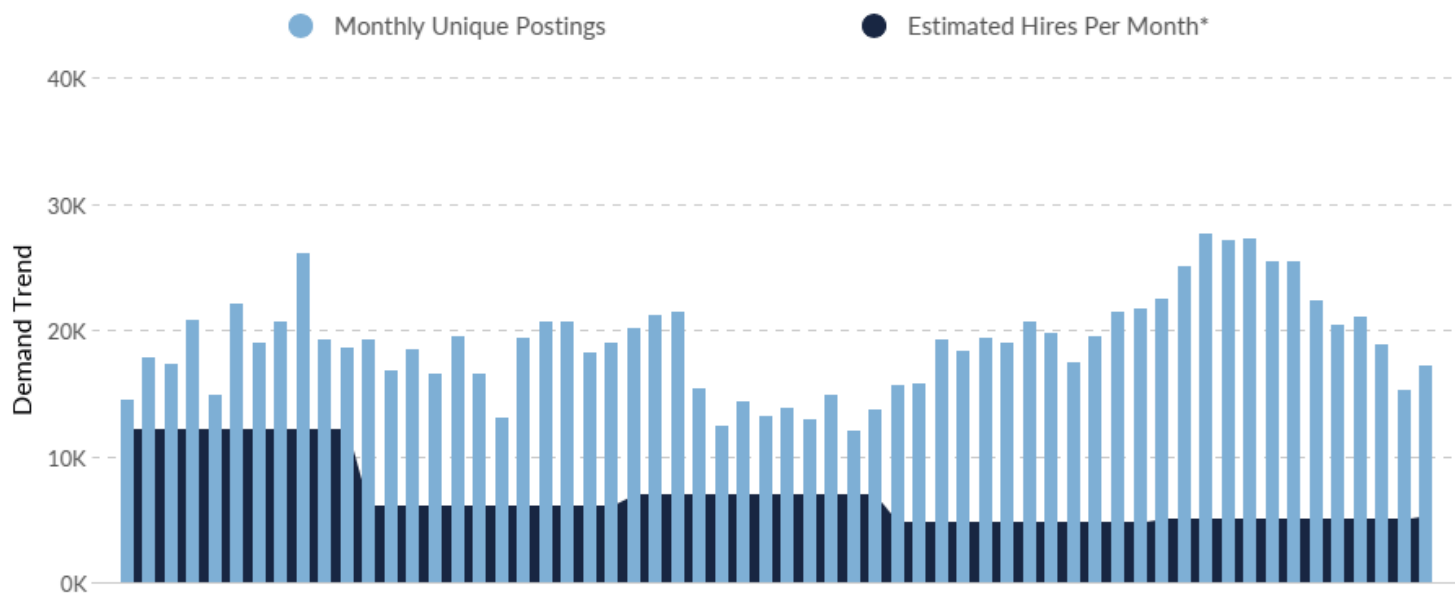
26,899 Employers Competing

All employers in the region who posted for this job from Jan 2022 to Jan 2023.























25 Day Median Duration

Posting duration is 3 days shorter than what's typical in the region.

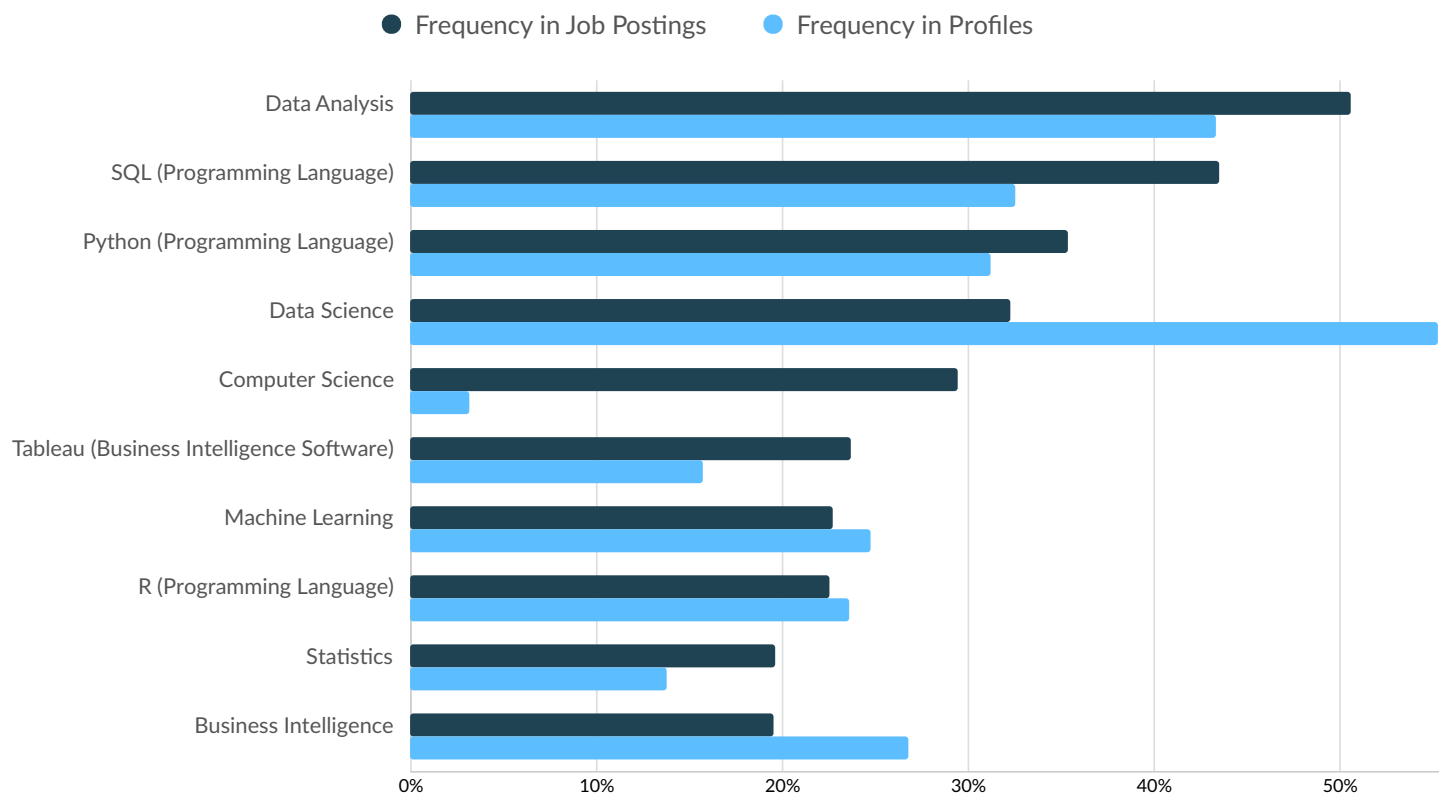


Occupation	Avg Monthly Postings (Jan 2022 - Jan 2023)	Avg Monthly Hires (Jan 2022 - Jan 2023)
Data Scientists	22,696	5,081

*A hire is reported by the Quarterly Workforce Indicators when an individual's Social Security Number appears on a company's payroll and was not there the quarter before. Lightcast hires are calculated using a combination of Lightcast jobs data, information on separation rates from the Bureau of Labor Statistics (BLS), and industry-based hires data from the Census Bureau.

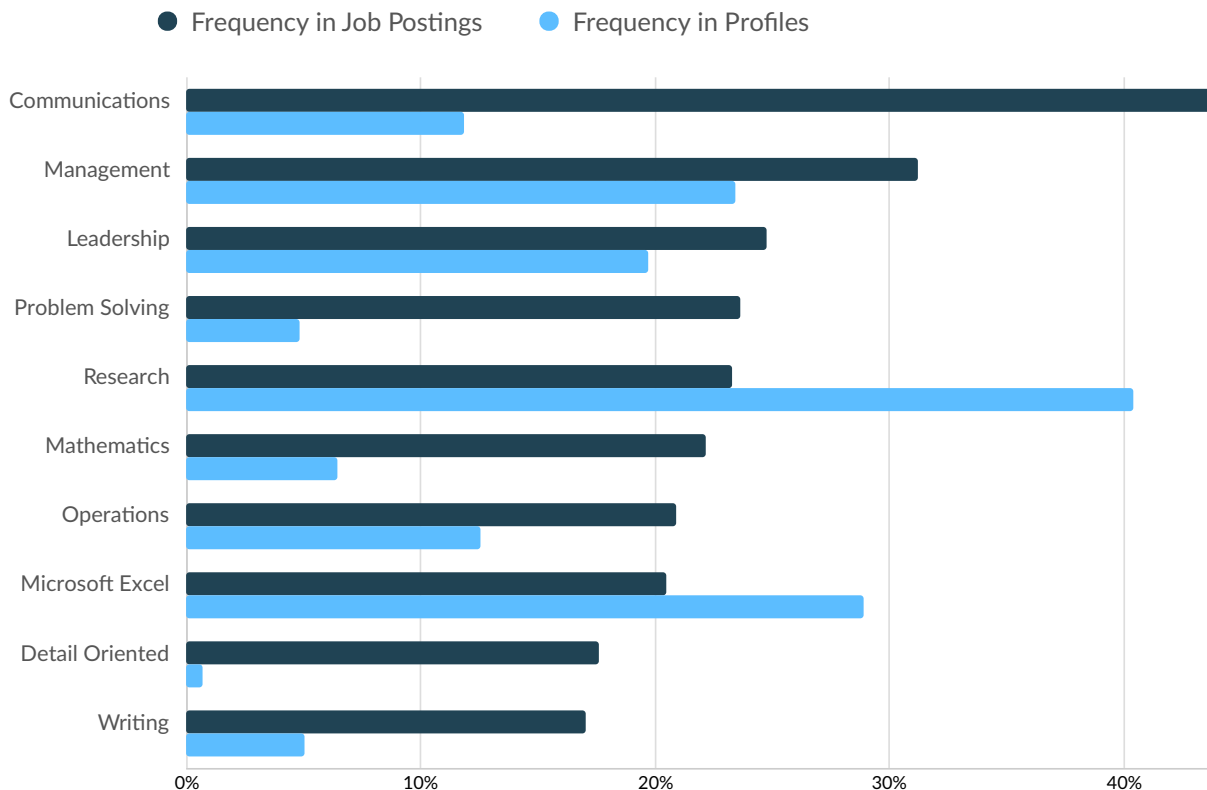
Top Companies	Unique Postings	Top Job Titles	Unique Postings
Deloitte	5,262 	Data Analysts	40,705 
Elevance Health	4,314 	Data Scientists	36,174 
Randstad	4,211 	Business Intelligence Analysts	11,936 
Humana	3,788 	Machine Learning Engineers	6,683 
Wells Fargo	3,421 	Data Science Managers	5,038 
General Motors	2,661 	Business Data Analysts	4,470 
Accenture	2,331 	Lead Data Scientists	3,343 
CTG	2,223 	Principal Data Scientists	2,680 
Robert Half	1,764 	Directors of Data Science	2,504 
Travelers	1,642 	Data Stewards	2,241 

Top Specialized Skills



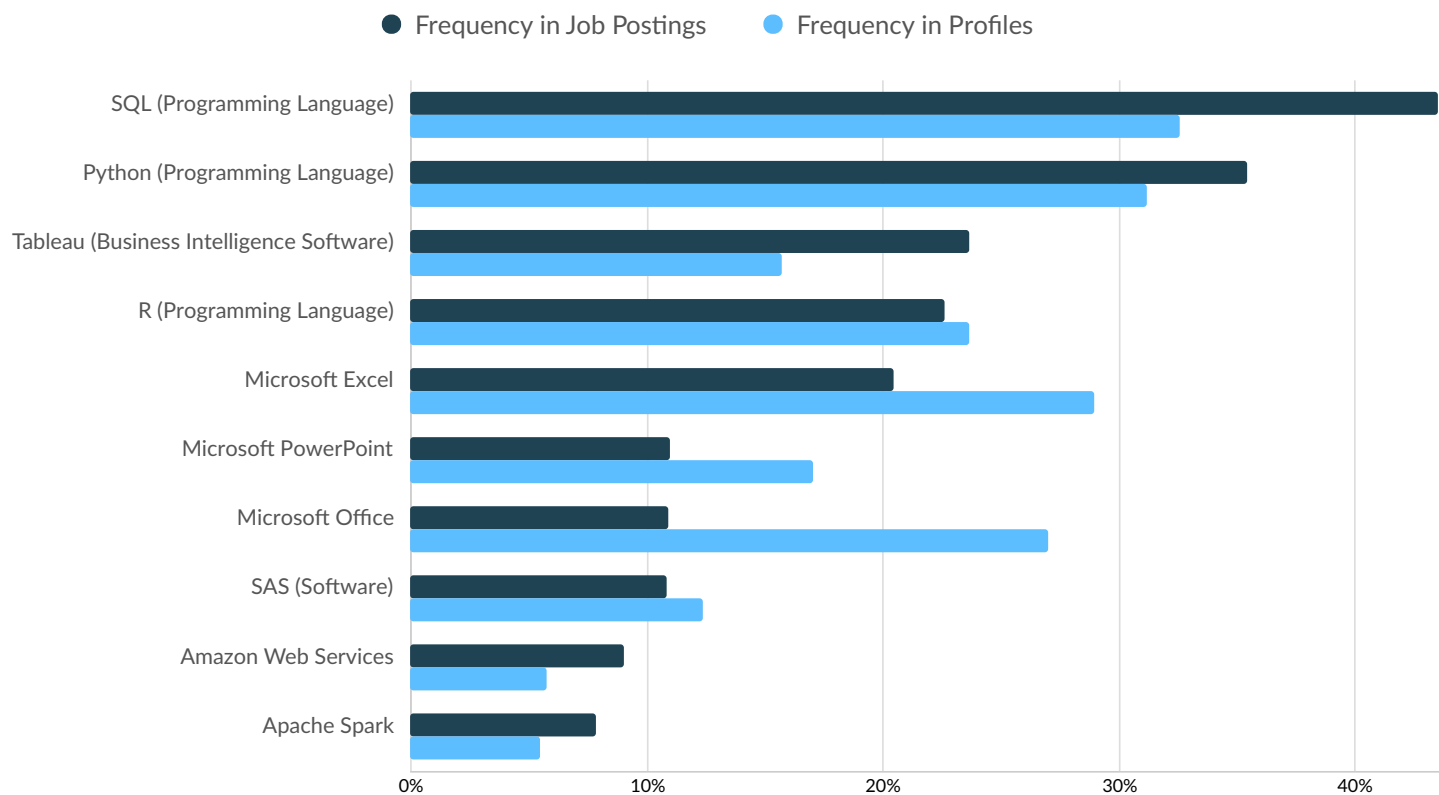
Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Data Analysis	149,272	51%	49,840	43%
SQL (Programming Language)	128,397	44%	37,411	33%
Python (Programming Language)	104,490	35%	35,878	31%
Data Science	95,138	32%	63,520	55%
Computer Science	86,888	29%	3,672	3%
Tableau (Business Intelligence Software)	69,838	24%	18,079	16%
Machine Learning	67,054	23%	28,469	25%
R (Programming Language)	66,673	23%	27,182	24%
Statistics	57,963	20%	15,879	14%
Business Intelligence	57,785	20%	30,838	27%

Top Common Skills



Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Communications	129,433	44%	13,602	12%
Management	92,148	31%	26,966	23%
Leadership	73,119	25%	22,675	20%
Problem Solving	69,698	24%	5,594	5%
Research	68,786	23%	46,464	40%
Mathematics	65,371	22%	7,452	6%
Operations	61,780	21%	14,404	13%
Microsoft Excel	60,383	20%	33,256	29%
Detail Oriented	52,063	18%	779	1%
Writing	50,427	17%	5,783	5%

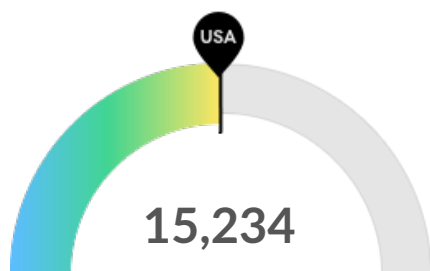
Top Software Skills



Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
SQL (Programming Language)	128,397	44%	37,411	33%
Python (Programming Language)	104,490	35%	35,878	31%
Tableau (Business Intelligence Software)	69,838	24%	18,079	16%
R (Programming Language)	66,673	23%	27,182	24%
Microsoft Excel	60,383	20%	33,256	29%
Microsoft PowerPoint	32,385	11%	19,612	17%
Microsoft Office	32,175	11%	31,043	27%
SAS (Software)	31,998	11%	14,233	12%
Amazon Web Services	26,773	9%	6,632	6%
Apache Spark	23,176	8%	6,290	5%

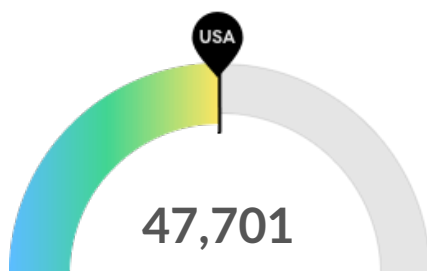
Demographics

Retirement Risk Is About Average, While Overall Diversity Is About Average



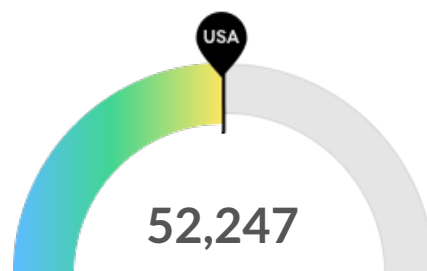
Retiring Soon

Retirement risk is about average in the United States. The national average for an area this size is 15,234* employees 55 or older, while there are 15,234 here.



Racial Diversity

Racial diversity is about average in the United States. The national average for an area this size is 47,701* racially diverse employees, while there are 47,701 here.

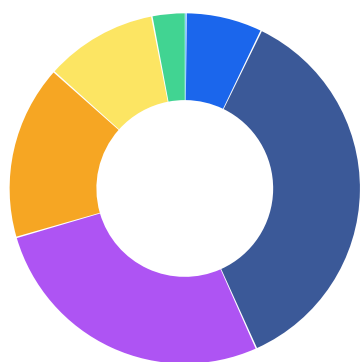


Gender Diversity

Gender diversity is about average in the United States. The national average for an area this size is 52,247* female employees, while there are 52,247 here.

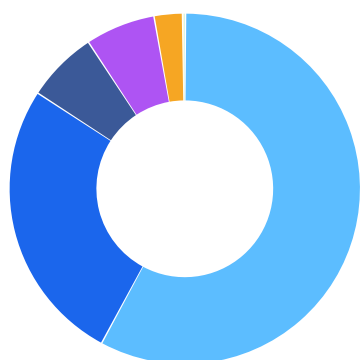
*National average values are derived by taking the national value for Data Scientists and scaling it down to account for the difference in overall workforce size between the nation and the United States. In other words, the values represent the national average adjusted for region size.

Occupation Age Breakdown



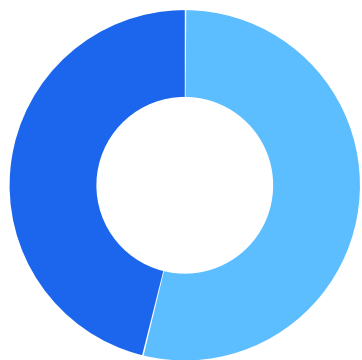
	% of Jobs	Jobs
14-18	0.1%	57
19-24	7.1%	7,983
25-34	36.1%	40,822
35-44	27.2%	30,738
45-54	16.1%	18,191
55-64	10.4%	11,748
65+	3.1%	3,486

Occupation Race/Ethnicity Breakdown



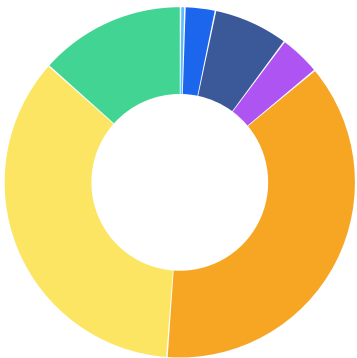
	% of Jobs	Jobs
White	57.8%	65,325
Asian	26.3%	29,744
Hispanic or Latino	6.6%	7,417
Black or African American	6.4%	7,276
Two or More Races	2.6%	2,950
Native Hawaiian or Other Pacific Islander	0.2%	179
American Indian or Alaska Native	0.1%	134

Occupation Gender Breakdown



	% of Jobs	Jobs
Males	53.8%	60,778
Females	46.2%	52,247

National Educational Attainment



	% of Jobs
<div></div> Less than high school diploma	0.4%
<div></div> High school diploma or equivalent	2.8%
<div></div> Some college, no degree	6.9%
<div></div> Associate's degree	3.8%
<div></div> Bachelor's degree	37.2%
<div></div> Master's degree	35.4%
<div></div> Doctoral or professional degree	13.5%

Occupational Programs



22 Programs

Of the programs that can train for this job, 22 have produced completions in the last 5 years.



53,874 Completions (2021)






The completions from all regional institutions for all degree types.



13,717 Openings (2021)

The average number of openings for an occupation in the region is 26,759.

CIP Code	Top Programs	Completions (2021)
27.0101	Mathematics, General	29,750 <div></div>
27.0501	Statistics, General	8,501 <div></div>
27.0301	Applied Mathematics, General	4,658 <div></div>
27.0305	Financial Mathematics	4,612 <div></div>
30.3001	Computational Science	1,344 <div></div>
27.0304	Computational and Applied Mathematics	1,164 <div></div>
30.7102	Business Analytics	823 <div></div>
27.9999	Mathematics and Statistics, Other	644 <div></div>
30.7001	Data Science, General	526 <div></div>
30.7101	Data Analytics, General	493 <div></div>

Top Schools	Completions (2021)
University of Chicago	788 
University of Illinois Urbana-Champaign	765 
New York University	723 
Columbia University in the City of New York	721 
University of California-Berkeley	720 
The Pennsylvania State University	714 
University of California-Los Angeles	691 
University of Wisconsin-Madison	673 
Stony Brook University	645 
University of California-Santa Barbara	631 

Appendix A

Data Scientists (SOC 15-2051):

Develop and implement a set of techniques or analytics applications to transform raw data into meaningful information using data-oriented programming languages and visualization software. Apply data mining, data modeling, natural language processing, and machine learning to extract and analyze information from large structured and unstructured datasets. Visualize, interpret, and report data findings. May create dynamic data reports. Excludes Statisticians (15-2041), Cartographers and Photogrammetrists (17-1021), and Health Information Technologists and Medical Registrars (29-9021).

Sample of Reported Job Titles:

- Data Visualization Developer
- Data Mining Analyst
- Data Analytics Specialist
- Data Analyst
- Business Intelligence Analyst
- Competitive Intelligence Analyst
- Clinical Data Manager
- Data Management Manager
- Data Deliverables Manager

Related O*NET Occupations:

- Data Scientists (15-2051.00)
- Business Intelligence Analysts (15-2051.01)
- Clinical Data Managers (15-2051.02)