

# USA DATA JOB TREND REPORT

## 📌 PROJECT BRIEF

THIS POWER BI REPORT EXPLORES DATA-RELATED JOB TRENDS ACROSS THE UNITED STATES. IT OFFERS INSIGHTS INTO HIRING DEMAND, SALARY PATTERNS, ROLE DISTRIBUTION, OWNERSHIP TYPES, AND SKILL REQUIREMENTS. THE REPORT ENABLES DATA-DRIVEN DECISIONS FOR JOB SEEKERS, CAREER ADVISORS, AND RECRUITERS THROUGH A COMPREHENSIVE VIEW OF THE U.S. DATA JOB MARKET.

## 🎯 OBJECTIVE

TO ANALYZE AND INTERPRET:

- STATES, COMPANIES & INDUSTRIES WITH THE MOST JOB OPENINGS
- SALARY VARIATIONS BY ROLE, EDUCATION, AND LOCATION
- JOB DISTRIBUTION ACROSS SENIORITY LEVELS AND OWNERSHIP TYPES
- HIGH-DEMAND JOB ROLES AND IN-DEMAND TECHNICAL SKILLS
- STRATEGIC INSIGHTS FOR CAREER PLANNING AND HIRING DECISIONS

## 🛠️ TASKS PERFORMED

- ◆ LOADED AND PREPARED A SINGLE-TABLE DATASET FOR ANALYSIS
- ◆ CLEANED & TRANSFORMED RAW DATA USING POWER QUERY
- ◆ CREATED DAX MEASURES TO ANALYZE JOB COUNTS, SALARIES, SKILL PRESENCE & EDUCATION IMPACT
- ◆ DESIGNED MULTI-PAGE DASHBOARDS INCLUDING:
  - MARKET OVERVIEW
  - SALARY & PROFESSIONAL INSIGHTS
  - HIRING TRENDS & OWNERSHIP ANALYSIS
- ◆ EXTRACTED KEY INSIGHTS TO HIGHLIGHT HIGH-DEMAND STATES, TOP-PAYING ROLES, AND STRATEGIC INDUSTRY TARGETS

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# MARKET OVERVIEW

Total Jobs

742

Total Industries

60

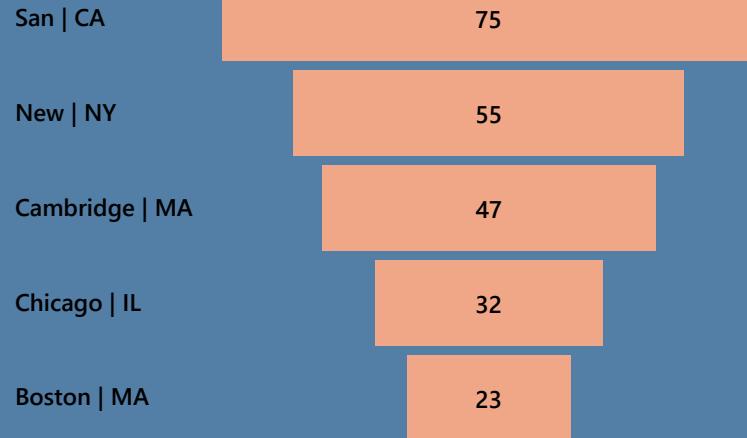
Total Companies

343

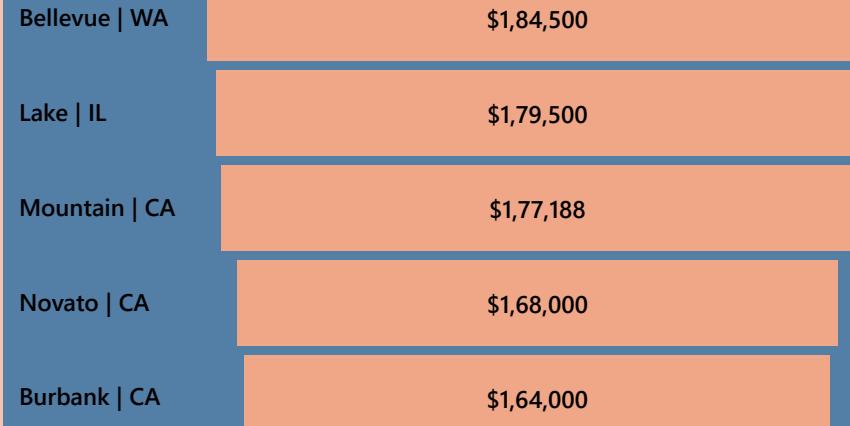
Average Salary

\$101K

## TOP 5 Hiring States



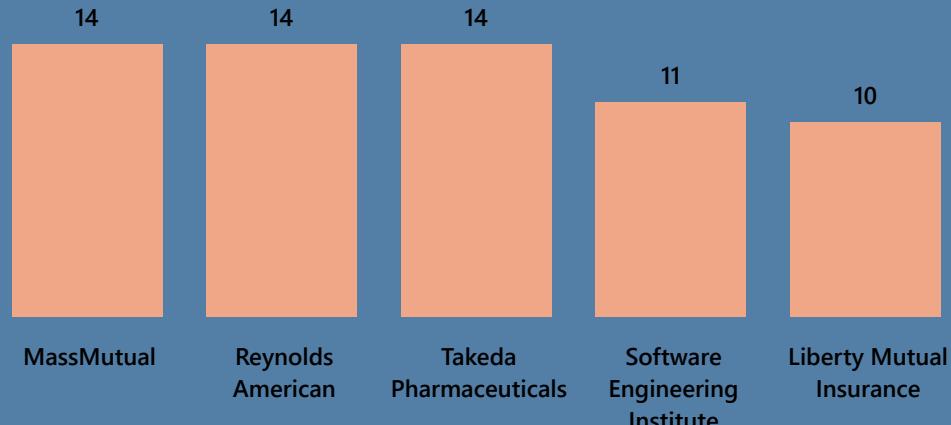
## TOP 5 States by Highest Average Salary



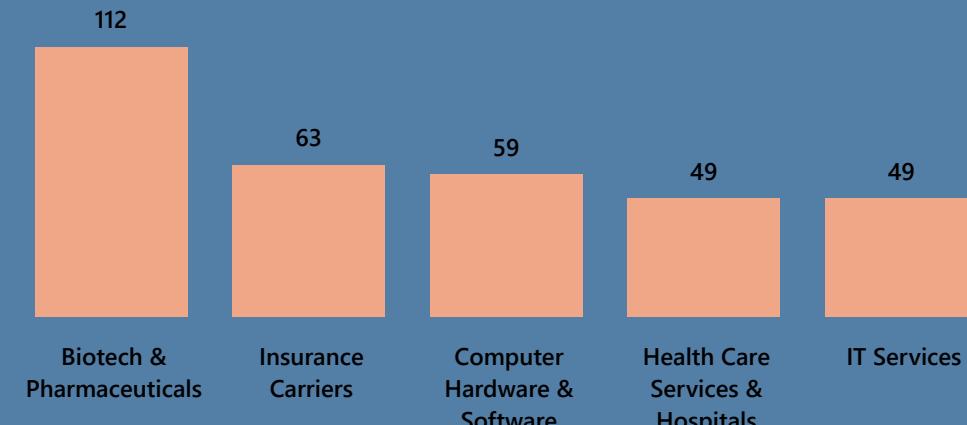
## Job Openings by Ownerships

Ownerships	Openings
Private	410
Public	193
Nonprofit Organization	55
Subsidiary or Business Segment	34
Government	15
Hospital	15
College / University	13
Other Organization	5
School / School District	2

## TOP 5 Hiring Companies



## TOP 5 Hiring Industries



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# SALARY & PROFESSIONAL INSIGHTS

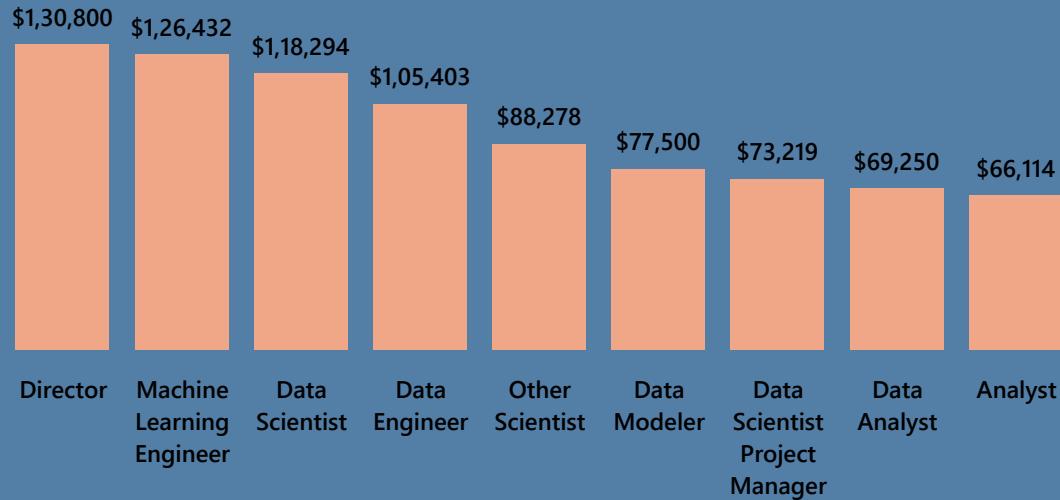
**Seniors**  
**220**

**Intermediates**  
**519**

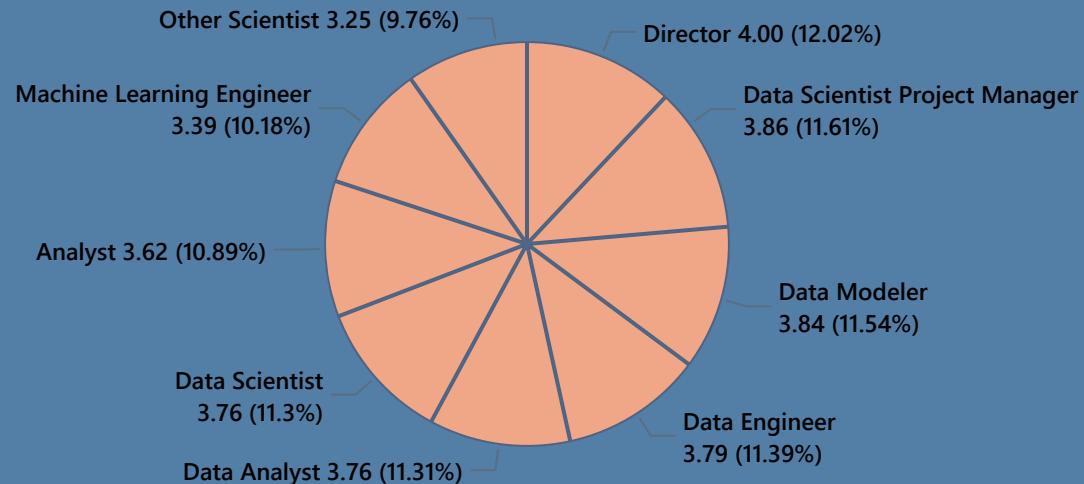
**Juniors**  
**3**

**Data Scientists**  
**313**

## Average Salary by Job Counts & Job Roles



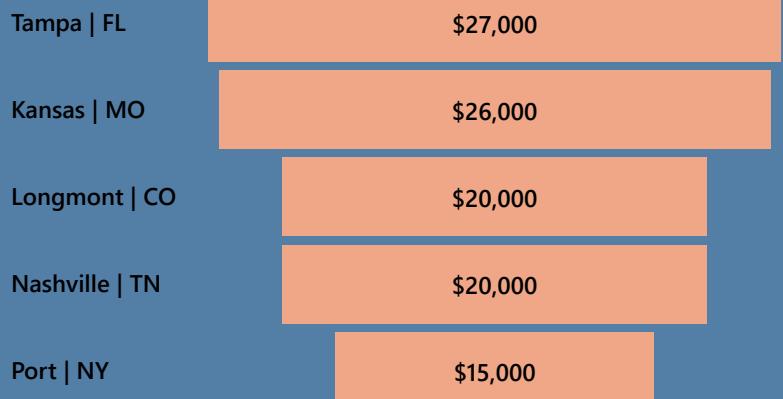
## Employee Satisfaction Rated by Job Roles



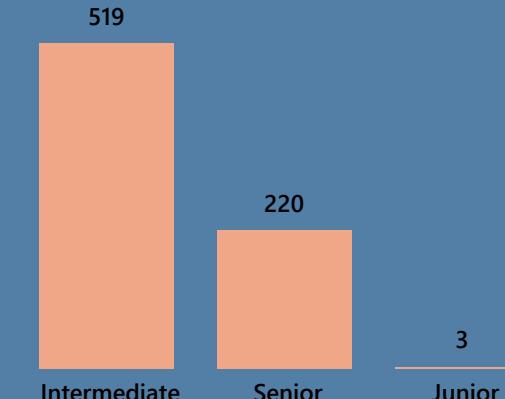
## TOP 5 States by Maximum Salary



## BOTTOM 5 States by Minimum Salary



## Openings as per Seniority



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# HIRING TRENDS & OWNERSHIP INSIGHTS

Public Jobs

**193**

Private Jobs

**410**

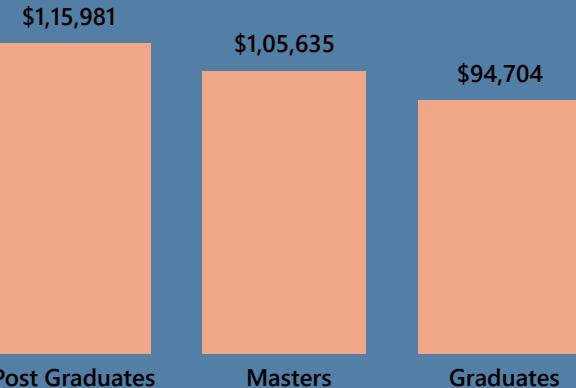
Government Jobs

**15**

## TOP 5 Job Roles Required by Owners

Ownerships	Analyst	Data Engineer	Data Scientist	Machine Learning Engineer	Other Scientist
College / University			0.28%		0.56%
Government			1.98%		0.14%
Hospital					2.12%
Nonprofit Organization	1.55%	1.13%	1.84%		2.68%
Other Organization	0.28%		0.14%		0.28%
Private	8.62%	11.44%	24.15%	1.27%	9.60%
Public	2.82%	3.53%	13.70%	0.71%	5.08%
School / School District	0.14%		0.14%		
Subsidiary or Business Segment	0.85%	0.71%	1.98%	0.14%	1.13%

## Education vs Average Salary



## Skill Distributions by Job Roles

Job Title	AWS	Excel	Flink	Google Analytics	Hadoop	Keras	MongoDB	Power BI	Python	Pytorch	SaaS	Scikit Learn	SQL	Tableau	Tensorflow
Analyst	5.68%	19.85%	0.00%	78.57%	2.42%	0.00%	8.11%	30.36%	7.91%	0.00%	16.67%	0.00%	19.74%	27.03%	0.00%
Data Analyst	0.00%	1.03%	0.00%	0.00%	0.00%	0.00%	0.00%	3.57%	1.28%	0.00%	3.03%	0.00%	1.05%	2.70%	0.00%
Data Engineer	33.52%	13.92%	60.00%	0.00%	40.32%	0.00%	35.14%	5.36%	19.64%	0.00%	1.52%	0.00%	22.89%	7.43%	2.78%
Data Modeler	1.14%	1.03%	0.00%	0.00%	0.81%	0.00%	0.00%	3.57%	0.51%	0.00%	0.00%	0.00%	1.05%	0.00%	0.00%
Data Scientist	44.89%	39.95%	40.00%	21.43%	48.39%	100.00%	51.35%	50.00%	61.22%	84.62%	75.76%	87.04%	46.32%	51.35%	83.33%
Data Scientist Project Manager	1.14%	2.84%	0.00%	0.00%	0.00%	0.00%	0.00%	3.57%	1.02%	0.00%	0.00%	0.00%	2.89%	8.11%	0.00%
Director	0.57%	0.52%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Machine Learning Engineer	3.41%	1.80%	0.00%	0.00%	3.23%	0.00%	0.00%	0.00%	4.59%	12.82%	0.00%	12.96%	3.42%	0.00%	12.50%
Other Scientist	9.66%	19.07%	0.00%	0.00%	4.84%	0.00%	5.41%	3.57%	3.83%	2.56%	3.03%	0.00%	2.63%	3.38%	1.39%

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## MARKET OVERVIEW

### INSIGHTS:

- ✓ CALIFORNIA AND NEW YORK HAVE THE HIGHEST JOB OPENINGS, WITH SAN | CA AND NEW | NY LEADING IN POSTINGS.
- ✓ HIGHEST AVERAGE SALARIES ARE FOUND IN WASHINGTON, CALIFORNIA, AND ILLINOIS, WITH BELLEVUE | WA OFFERING \$184,500.
- ✓ BIOTECH & PHARMACEUTICALS LEAD IN JOB POSTINGS (33.73%), FOLLOWED BY INSURANCE, IT SERVICES, AND HEALTHCARE.
- ✓ PRIVATE SECTOR JOBS ACCOUNT FOR 55% OF TOTAL OPENINGS, WHILE GOVERNMENT AND NONPROFIT ROLES REMAIN LIMITED.

### RECOMMENDATIONS:

- ✓ JOB SEEKERS SHOULD TARGET HIGH-DEMAND STATES LIKE CALIFORNIA, NEW YORK, AND ILLINOIS FOR BETTER EMPLOYMENT OPPORTUNITIES AND COMPETITIVE SALARIES.
- ✓ FOCUSING ON INDUSTRIES LIKE BIOTECH, INSURANCE, AND IT SERVICES CAN INCREASE JOB PROSPECTS AND LONG-TERM CAREER GROWTH.
- ✓ PRIVATE COMPANIES OFFER THE MOST JOB OPPORTUNITIES, MAKING THEM A STRONG CHOICE FOR THOSE SEEKING QUICKER EMPLOYMENT AND CAREER ADVANCEMENT.

## SALARY & PROFESSIONAL INSIGHTS

### INSIGHTS:

- ✓ SENIOR-LEVEL ROLES COMMAND THE HIGHEST SALARIES, WITH DIRECTORS EARNING AN AVERAGE OF \$130,800.
- ✓ CHICAGO | IL OFFERS THE HIGHEST-PAYING JOBS (\$306K), WHILE LOWEST SALARIES ARE FOUND IN FLORIDA, MISSOURI, COLORADO, TENNESSEE, AND NEW YORK.
- ✓ POSTGRADUATES EARN SIGNIFICANTLY HIGHER SALARIES (\$115,981) COMPARED TO GRADUATES (\$94,704), SHOWING A STRONG EDUCATION-SALARY LINK.
- ✓ DATA SCIENTISTS REMAIN THE MOST IN-DEMAND ROLE (313 JOB OPENINGS), FOLLOWED BY DATA ENGINEERS AND MACHINE LEARNING ENGINEERS.
- ✓ EMPLOYEE SATISFACTION IS HIGHEST AMONG DIRECTORS (4.00 RATING) AND LOWEST AMONG ENTRY-LEVEL ANALYSTS (3.39 RATING).

### RECOMMENDATIONS:

- ✓ ENTRY-LEVEL PROFESSIONALS SHOULD FOCUS ON BUILDING TECHNICAL SKILLS AND GAINING EXPERIENCE TO PROGRESS INTO HIGH-PAYING SENIOR ROLES OVER TIME.
- ✓ RELOCATING TO HIGH-PAYING STATES LIKE ILLINOIS, CALIFORNIA, AND WASHINGTON CAN MAXIMIZE EARNINGS, BUT JOB COMPETITION SHOULD BE CONSIDERED.
- ✓ ADVANCING EDUCATION TO A POSTGRADUATE LEVEL CAN LEAD TO BETTER SALARY OPPORTUNITIES, ESPECIALLY IN HIGHLY COMPETITIVE FIELDS.
- ✓ FOCUSING ON HIGH-DEMAND ROLES LIKE DATA SCIENCE AND MACHINE LEARNING ENGINEERING CAN IMPROVE JOB SECURITY AND FUTURE CAREER GROWTH.

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## HIRING TRENDS & OWNERSHIPS INSIGHTS

### INSIGHTS:

- ✓ PRIVATE SECTOR HAS THE HIGHEST JOB OPENINGS (410), FOLLOWED BY PUBLIC SECTOR (193), WHILE GOVERNMENT ROLES REMAIN THE LOWEST (15).
- ✓ DATA SCIENTISTS ARE THE MOST IN-DEMAND JOB ROLE ACROSS OWNERSHIP TYPES, WITH 24.15% OF PRIVATE SECTOR JOBS.
- ✓ MACHINE LEARNING ENGINEERS HAVE LIMITED JOBS IN PRIVATE SECTOR (1.27%) BUT HIGHER REPRESENTATION IN NONPROFIT ORGANIZATIONS (2.68%).
- ✓ HEALTHCARE & EDUCATION SECTORS HAVE THE LOWEST JOB OPENINGS, INDICATING A LESS COMPETITIVE HIRING MARKET.
- ✓ BIOTECH, INSURANCE & IT SERVICES ARE THE HIGHEST-PAYING INDUSTRIES, WHILE HEALTHCARE & EDUCATION OFFER LOWER SALARIES.

### RECOMMENDATIONS:

- ✓ PRIVATE COMPANIES PROVIDE THE MOST JOB OPPORTUNITIES, BUT CANDIDATES SHOULD CONSIDER PUBLIC SECTOR ROLES FOR JOB STABILITY.
- ✓ DATA SCIENTISTS HAVE THE STRONGEST JOB DEMAND ACROSS OWNERSHIP TYPES, MAKING IT A PROMISING CAREER CHOICE.
- ✓ ASPIRING MACHINE LEARNING ENGINEERS SHOULD EXPLORE NONPROFIT & PUBLIC SECTOR OPPORTUNITIES DUE TO HIGHER REPRESENTATION.
- ✓ JOB SEEKERS LOOKING FOR HIGH SALARIES SHOULD TARGET BIOTECH, INSURANCE & IT SERVICES, AVOIDING LOW-PAYING SECTORS LIKE HEALTHCARE & EDUCATION.