

# Global Technology Salary Project

## Overview: 25 Insightful SQL Questions

### I. Overview Summary

1. What is the total number of jobs?

Total_Jobs
145414

2. What is the total number of unique positions?

Total_Unique_Positions
416

3. What are all the unique positions in the dataset?

Position
Data Engineer
Software Developer
Business Intelligence Engineer
Data Scientist
BI Engineer
Product Designer
Product Manager
Machine Learning Engineer
Machine Learning Developer
Engineer
Research Scientist
Head of Data
Director

4. How many jobs exist by work type (remote, on-site, hybrid)?

work_type	Total_Jobs
On-site	114863
Remote	30223
Hybrid	328

5. How many jobs exist by employment type (full-time, part-time, etc.)?

	employment_type	Total_Jobs
►	Full-time	144544
	Contract	445
	Part-time	409
	Freelance	16

6. How many jobs exist by experience level (Entry-level, Mid-level, Senior-level, Director)?

	experience_level	Total_Jobs
►	Senior-level	84157
	Mid-level	44060
	Entry-level	13434
	Director	3763

7. How many jobs exist by company size (Small, Medium, Large)?

	company_size	Total_Jobs
►	Medium	141378
	Large	3819
	Small	217

8. What are the top 10 countries with the most number of jobs (based on company location)?

	company_location	Total_Jobs
►	United States	130222
	Canada	5892
	United Kingdom	4037
	Australia	564
	Netherlands	458
	Germany	435
	France	411
	Lithuania	362
	Austria	345
	Spain	293

9. What are the top 10 most common job titles?

jobs	Total_Jobs
Data Scientist	18235
Software Engineer	16328
Data Engineer	15873
Data Analyst	13369
Engineer	10478
Machine Learning Engineer	8659
Manager	7415
Analyst	5024
Research Scientist	3364
Product Manager	2462

## II. Salary Analysis

1. What is the average salary across all jobs?

Average_Salary
157498

2. What is the average salary by experience level?

experience_Level	Average_Salary
Director	202356
Senior-level	172620
Mid-level	142635
Entry-level	98950

3. What is the average salary by company size?

company_size	Average_Salary
Large	159093
Medium	157562
Small	87835

4. What are the top 10 highest-paying job titles (by average salary)?

jobs	Average_Salary
Research Team Lead	450000
Analytics Engineering Manager	399880
Data Science Tech Lead	375000
Applied AI ML Lead	292500
IT Enterprise Data Architect	284090
Head of Applied AI	273875
Director of Data	270000
Head of Machine Learning	266430
AIRS Solutions Specialist	263250
Machine Learning Performance Engineer	262500

5. What is the most common salary bucket for each job title?

jobs	salary_bucket	Total_Jobs
Data Scientist	120K–250K	11203
Software Engineer	120K–250K	10813
Data Engineer	120K–250K	9391
Data Analyst	60K - 120K	7439
Engineer	120K–250K	6207
Machine Learning Engineer	120K–250K	5819
Manager	120K–250K	4624
Analyst	60K - 120K	2850
Research Scientist	120K–250K	2157
Product Manager	120K–250K	1619
Applied Scientist	120K–250K	1592
Data Architect	120K–250K	1387
Analytics Engineer	120K–250K	1316

6. Which job titles are most likely to be remote and highly paid?

jobs	Total_Jobs	Average_Remote_Salary
Head of AI	12	254750
Enterprise Account Executive	6	253167
Director of Product Management	6	247375
Executive	14	240989
Machine Learning Software Engineer	5	240440
Engineering Manager	176	234581
Head of Data	72	227330
Data Analysis	10	215190
System Engineer	6	204967
Director	138	200902

7. Which top 10 job titles are paid below average in most countries?

jobs	Total_Jobs
Data Analyst	11730
Data Scientist	10361
Data Engineer	9589
Software Engineer	6115
Engineer	5295
Analyst	4269
Manager	3851
Machine Learning Engineer	2807
Associate	1649
Analytics Engineer	1238

8. Which job titles show the largest difference in salary between company size categories?

jobs	salary_difference_large_vs_small
Product Designer	216973
Head of Data	136272
AI Researcher	112111
Applied Machine Learning Scientist	100831
Research Scientist	92694
Analytics Engineer	92262
Manager Data Management	88986
Data Engineer	82187
AI Scientist	81078
Machine Learning Engineer	73176

### III. Time Trends & Growth

1. What is the year-over-year salary growth for each job title?

Jobs	Work_Year	Average_Salary	Prev_Year_Salary	Salary_Change
Actuarial Analyst	2025	91800	91333	467
Admin & Data Analyst	2023	50000	60000	-10000
Admin & Data Analyst	2024	79074	50000	29074
Admin & Data Analyst	2025	52000	79074	-27074
AI Architect	2023	250328	180000	70328
AI Architect	2024	212573	250328	-37755
AI Architect	2025	204310	212573	-8263
AI Data Engineer	2025	100000	88888	11112
AI Data Scientist	2025	139000	61381	77619
AI Developer	2023	133267	275000	-141733
AI Developer	2024	164920	133267	31653
AI Developer	2025	148263	164920	-16657
AI Engineer	2023	161488	107093	54395

2. Which 10 job titles had the biggest salary change across years?

jobs	salary_change
Data Analytics Lead	315989
Head of Machine Learning	257691
Computer Vision Engineer	184324
Applied Machine Learning Scientist	170090
AI Scientist	166535
Software Development Engineer	164354
Research Scientist	162996
Machine Learning Infrastructure Engineer	153094
Staff Data Analyst	150122
Deep Learning Engineer	147701

3. Which job titles have consistently increased in salary every year?

jobs
AI Engineer
AI Programmer
AI Research Engineer
AI Scientist
Applied Scientist
BI Analyst
Big Data Engineer
Business Data Analyst
Business Intelligence Developer
Computer Vision Engineer
Data Analyst
Data Analytics Consultant
Data Analytics Manager

4. What are the top 3 highest-paid jobs in each year?

Jobs	Work_Year	Annual_Salary	salary_rank
Software Engineer	2025	800000	1
Architect	2025	800000	1
Data Engineer	2025	793136	3
Data Engineer	2025	793136	3
AI Architect	2024	800000	1
Data Analyst	2024	774000	2
Analytics Engineer	2024	750000	3
Machine Learning Scientist	2024	750000	3
Data Analyst	2024	750000	3
Machine Learning Scientist	2024	750000	3
Data Scientist	2024	750000	3
Machine Learning Scientist	2023	750000	1
Machine Learning Engineer	2023	750000	1

5. What are the fastest growing job titles over the years (based on job count)?

jobs	work_Year	previous_total_jobs	total_jobs	growth
Data Scientist	2024	1925	8932	7007
Data Engineer	2024	1853	6987	5134
Data Analyst	2024	1267	5715	4448
Machine Learning Engineer	2024	1068	4576	3508
Manager	2025	2452	4963	2511
Engineer	2025	4018	6460	2442
Analyst	2025	1391	3633	2242
Research Scientist	2024	286	1968	1682
Data Scientist	2023	450	1925	1475
Data Engineer	2023	488	1853	1365

#### IV. Strategic Business & Remote Insights

1. Which company sizes offer the most remote jobs?

company_size	Total_Jobs
Medium	29715
Large	389
Small	119

2. What are the top 3 highest-paid roles per employment type?

jobs	employment_type	annual_salary	ranking
Technical Writer	Contract	500000	1
Principal Data Scientist	Contract	416000	2
Data Scientist	Contract	338526	3
Machine Learning Engineer	Freelance	100000	1
Data Scientist	Freelance	100000	1
Backend Engineer	Freelance	61333	3
AI Architect	Full-time	800000	1
Architect	Full-time	800000	1
Software Engineer	Full-time	800000	1
Data Analyst	Part-time	405000	1
Data Analysis	Part-time	400000	2
Software Engineer	Part-time	381004	3

3. Which job titles show the clearest salary progression across all experience levels (Entry-level → Mid-level → Senior-level → Director)?

jobs	entry_level	mid_level	senior_level	director_level
Research Engineer	141855	206804	217745	290000
AI Developer	90564	143404	178322	276000
Engineer	101841	148798	183295	242713
Solutions Engineer	50133	130789	185414	239871
Systems Engineer	115029	161557	184444	232750
Machine Learning Engineer	149826	179467	207297	230632
Software Engineer	123786	171103	200711	228015
Solutions Architect	126125	141504	193615	218575
Bioinformatics Scientist	48000	127143	156467	213600
Analytics Engineer	111270	145297	163541	207674