



TECHSTL
TECH INNOVATION IS STLMADE

2023

St. Louis MSA
Tech Job Market
REPORT

**AN ANNUAL REVIEW
OF TECH OPPORTUNITY
IN THE ST. LOUIS METRO**

TechSTL.com
info@TechSTL.com

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DATA FOCUS & SOURCES

for TechSTL MSA Job Market Reports

The TechSTL 55 Occupations

One of the biggest challenges around maintaining data for any tech hub labor market is that the IT sector is constantly in a state of transition. The number of core tech occupations changes every year as the industry keeps evolving. In 2022, TechSTL released the [IT Labor Market Report](#) which established the data benchmarks for the St. Louis MSA IT & Data Economy from 2018 - 2022, as well as, defined our core 55 tech occupations (listed on pages 9 & 10). While these same 55 were referenced in the 2022 & 2023 Tech Job Market Report, that number may change as the industry continues to evolve, especially due to rapid expansion in the artificial intelligence and cybersecurity industries.

Labor Market vs. Job Postings

It is important with explaining the key difference between the two data sets referenced in this report. Tech Employment or the Labor Market represents the number of tech occupations currently in existence with the St. Louis MSA. The Job Postings or Active Job Ads references the open positions available within the MSA. Employment data is a lagging indicator of the job market while the job ads data can indicate if demand for expansion is growing or contracting.

St. Louis MSA

This data report is looking only at the labor market and job postings available within the 15-county bistate region of the St. Louis Metropolitan Statistical Area.

Data Sources

We sourced this data from [JobsEQ](#), [Chumura Economics](#), [U.S. Bureau of Labor Statistics](#), and the [CompTIA Tech Jobs Report](#)

KEY FINDINGS

4

on the state of tech jobs in St. Louis

1. St. Louis MSA and U.S. **tech employment** continued to grow in 2023

2. The number of **tech job ads posted** has fallen sharply in both the U.S. and Greater St. Louis continuing a slowdown that started in 2022

3. 2024 may see **slower employment growth** for the first time in several years providing an opportunity for some employers to obtain more competitive tech talent

4. 2024 and longer term forecasts are for **continued growth** in tech employment fueled by shifting tech demand related to AI, cybersecurity, big data, and other trends



SEE MORE DATA ON
OUR [WEBSITE](#) ↗

 **TECHSTL**

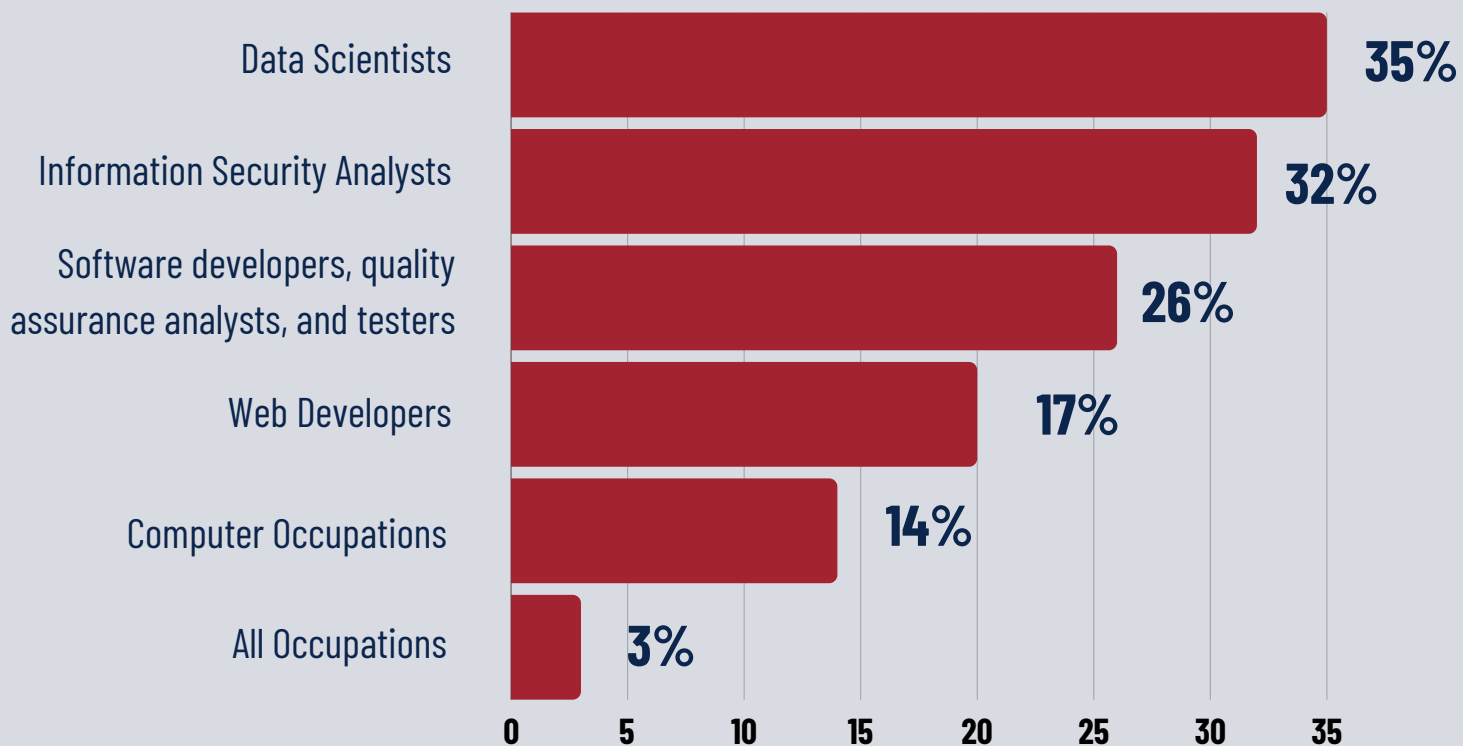
NATIONAL UPHEAVAL

in the technology industry

5

During 2022 and 2023 the media reported widely on “The Great Tech Layoff” with large layoffs at many of the big tech firms including Alphabet (Google), Amazon, Apple, Meta, and Microsoft cutting around 112,000 employees in 2021-2022. However, this was after record expansions and these companies collectively have 719,000 more employees now than before the pandemic. As of January 2024, employment in the broader tech industry is growing with a tech unemployment rate of 3.3%, below the overall U.S. rate of 3.7%. Also, Bureau of Labor Statistics, estimates that between 2021 and 2031 jobs for software developers will grow by 25% and data scientists by 35%, far outpacing the 3% growth for all occupations, demonstrating the continued growth rate anticipated for key tech occupations.

Bureau of Labor Statistics 2022-2032 US Job Outlook



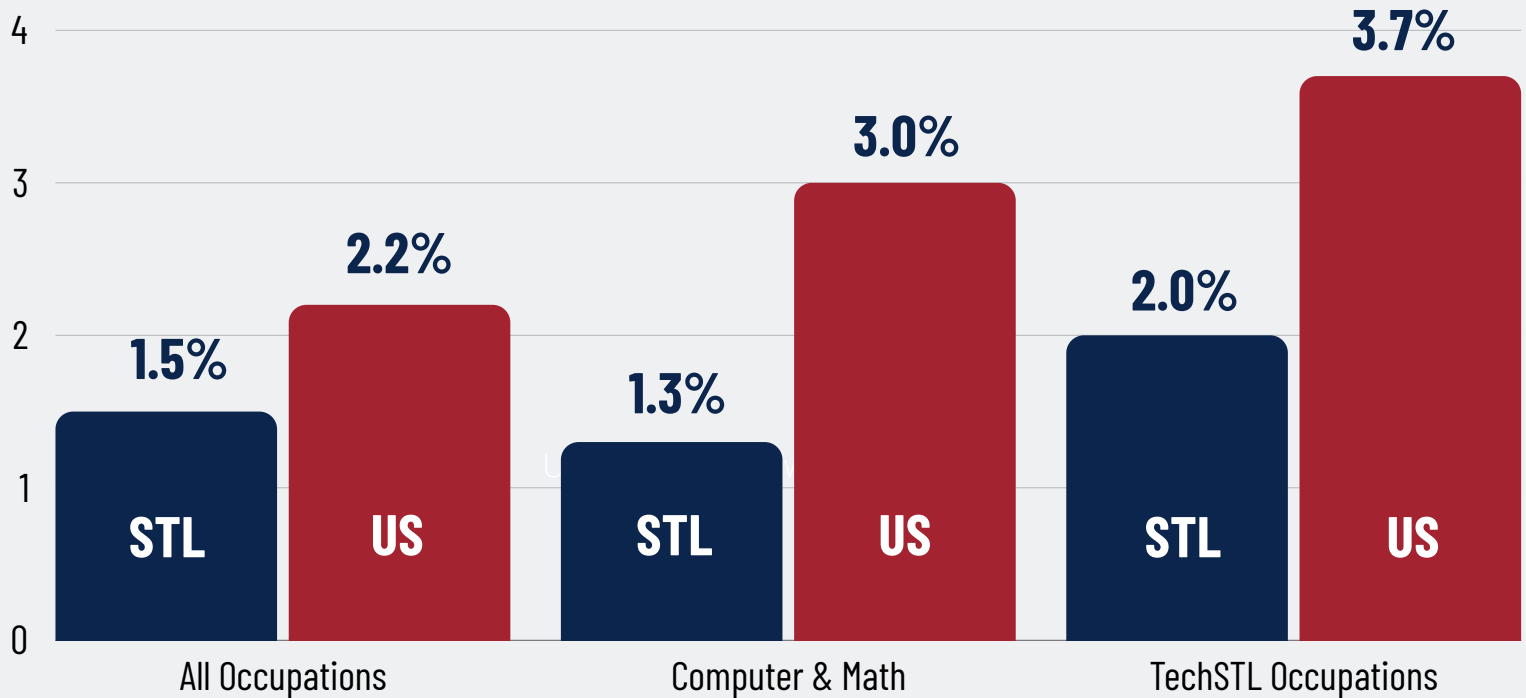
Data: BLS Employment Projections

Percent change in employment, projected 2022-32

TOTAL LABOR MARKET

Summary of St. Louis MSA employment vs. USA

Growth in Employment - Year Ending Q3 2023

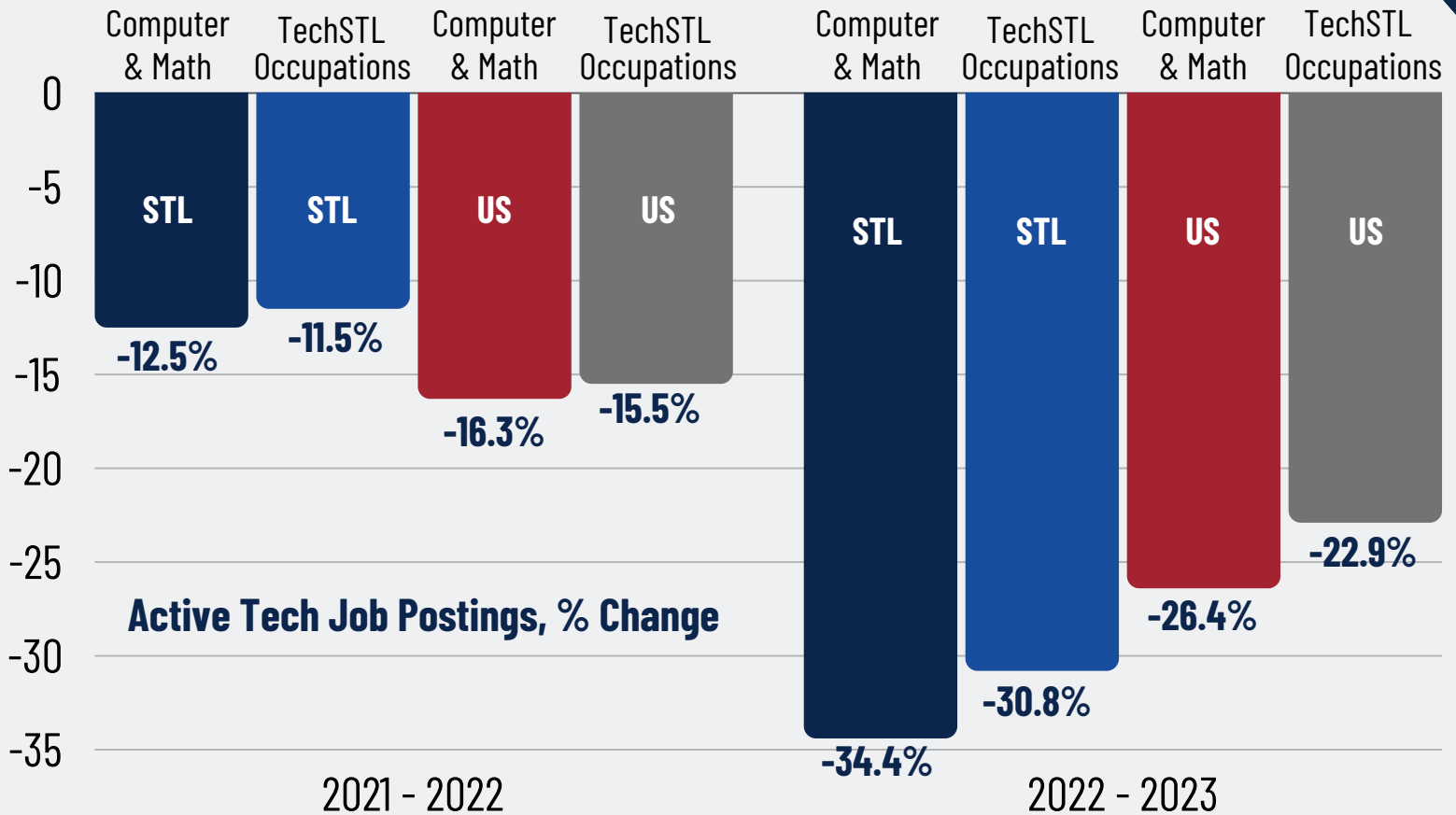


Growth in Employment - Year Ending Q3 2023

Occupations	St. Louis MSA - Employment	U.S. - Employment	St. Louis MSA - 1 Yr Growth	U.S. - 1 Yr Growth
Computer & Math Occupations	43,087	5,275,299	1.3%	3.0%
TechSTL Occupations	89,187	11,300,476	2.0%	3.7%
All Occupations	1,409,819	163,908,932	1.5%	2.2%

ACTIVE TECH JOB POSTINGS

Summary of St. Louis MSA vs. U.S. jobs



Active Tech Job Postings, YTD 2021-23 (end of December)

Area	Occupations	2021	2022	% Change 2021-22	2023	% Change 2022-23	% Change 2021-23
St. Louis MSA	Computer & Math	5,833	5,101	-12.5%	3,348	-34.4%	-42.6%
St. Louis MSA	TechSTL Occupations	9,633	8,524	-11.5%	5,895	-30.8%	-38.8%
U.S.	Computer & Math	517,858	433,300	-16.3%	318,696	-26.4%	-38.5%
U.S.	TechSTL Occupations	899,664	760,270	-15.5%	586,190	-22.9%	-34.8%

Source: ["Real Time Intelligence" JobsEQ, Chumura Economics](#), Accessed 1/25/24.

POSTINGS

8

ACTIVE TECH JOB POSTINGS

A dashboard of total job postings in 2023 YTD

↓ **45%**
2022 vs. 2023

—
2022 vs. 2023

↓ **13%**
2022 vs. 2023

—
2022 vs. 2023

↓ **3%**
2022 vs. 2023

↓ **4%**
2022 vs. 2023

▶ **39,020** TOTAL JOB POSTINGS

▶ **55** TECH OCCUPATIONS

▶ **5,637** REGIONAL EMPLOYERS

▶ **10,000** UNIQUE JOB TITLES

▶ **356** REQUESTED CERTIFICATIONS

▶ **1,612** REQUESTED HARD SKILLS

ACTIVE TECH JOB POSTINGS

total postings in MSA by occupation in 2023 YTD

OCCUPATION	JOB POSTINGS 23	22v23
1. Computer and Information Systems Managers	6,335	-44%
2. Software Developers	5,199	-53%
3. Computer User Support Specialists	4,211	-34%
4. Management Analysts	3,267	-50%
5. Network and Computer Systems Administrators	2,738	-47%
6. Computer Systems Engineers/Architects	2,292	-56%
7. Business Operations Specialists, All Other	2,194	-32%
8. Marketing Managers	1,531	-40%
9. Financial and Investment Analysts	1,252	-39%
10. Operations Research Analysts	1,242	-48%
11. Information Technology Project Managers	1,206	-42%
12. Information Security Analysts	1,039	-43%
13. Computer Systems Analysts	909	-39%
14. Software Quality Assurance Analysts and Testers	680	-34%
15. Market Research Analysts and Marketing Specialists	646	-35%
16. Computer and Information Research Scientists	532	-32%
17. Logistics Analysts	407	-42%
18. Database Administrators	404	-26%
19. Search Marketing Strategists	353	-48%
20. Web Developers	337	-47%
21. Business Intelligence Analysts	298	-40%
22. Graphic Designers	290	-40%
23. Geographic Information Systems Technologists	249	-27%
24. Financial Risk Specialists	141	-40%
25. Web and Digital Interface Designers	130	-52%
26. Fraud Examiners, Investigators and Analysts	117	-39%
27. Statisticians	107	-22%

JobsEQ Labor Market Research 2023

Need more data? Contact Emily@TechSTL.com

ACTIVE TECH JOB POSTINGS

total postings in MSA by occupation in 2023 YTD

OCCUPATION	JOB POSTINGS 23	22v23
28. Logisticians	106	-52%
29. Database Architects	104	-53%
30. Data Warehousing Specialists	83	-18%
31. Computer Programmers	67	-71%
32. Computer Network Architects	62	-37%
33. Special Effects Artists and Animators	57	-35%
34. Business Continuity Planners	45	-2%
35. Computer Hardware Engineers	38	-82%
36. Document Management Specialists	37	-
37. Online Merchants	36	-31%
38. Sustainability Specialists	33	-13%
39. Financial Quantitative Analysts	32	-46%
40. Data Scientists	32	-35%
41. Health Informatics Specialists	30	-41%
42. Computer, Automated Teller, and Office Machine Repairers	24	+9%
43. Web Administrators	22	+144%
44. Telecommunications Engineering Specialists	21	-36%
45. Biostatisticians	18	-59%
46. Penetration Testers	17	-60%
47. Information Security Engineers	13	-7%
48. Blockchain Engineers	7	-56%
49. Digital Forensics Analysts	6	-54%
50. Clinical Data Managers	6	-25%
51. Logistics Engineers	5	-38%
52. Financial Specialists, All Other	5	-17%
53. Security Management Specialists	4	-89%
54. Computer Network Support Specialists	2	-67%
55. Video Game Designers	2	-33%

TOP MSA EMPLOYERS

posting tech occupations in 2023

11

1,706

 **BOEING**

1st

1,034

 **mastercard**

2nd

782

 **Spectrum**

3rd

653

 **WELLS FARGO**

4

574

 **Cigna**

5

506

 **Edward Jones**

6

488

 **Deloitte.**

7

470

 **World Wide Technology**

8

456

 **leidos**

9

390

 **BAYER**

10

354

 **ENTERPRISE HOLDINGS**

11

TOP MSA EMPLOYERS

posting tech occupations in 2023

12

341



12

325

STIFEL

13

288

BJC HealthCare

14

198

accenture

15

191

KPMG

16

165

citi

17

162



Anheuser-Busch

18

158

SSMHealth

19

157

Washington
University in St. Louis

20

153

randstad

21

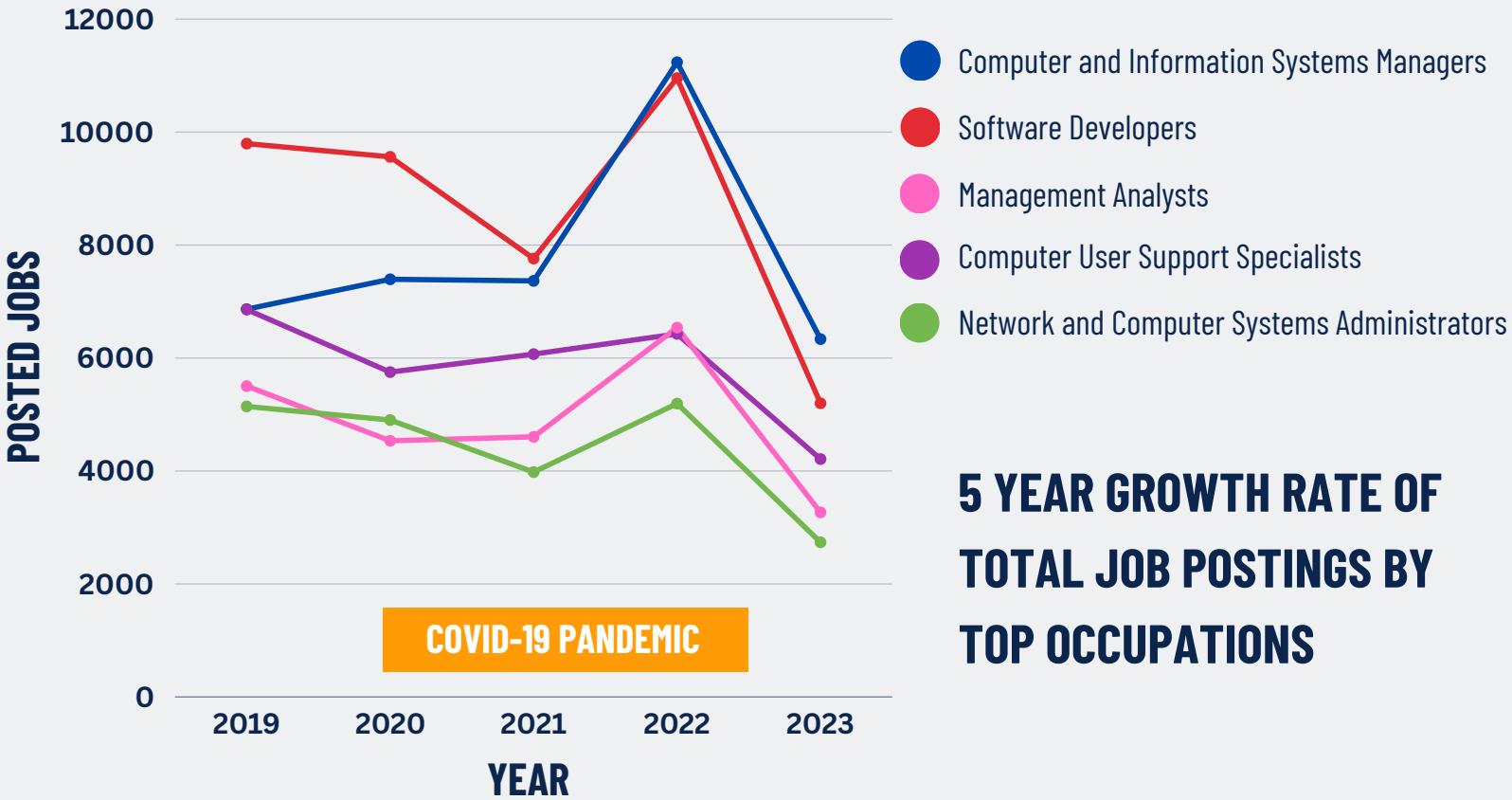
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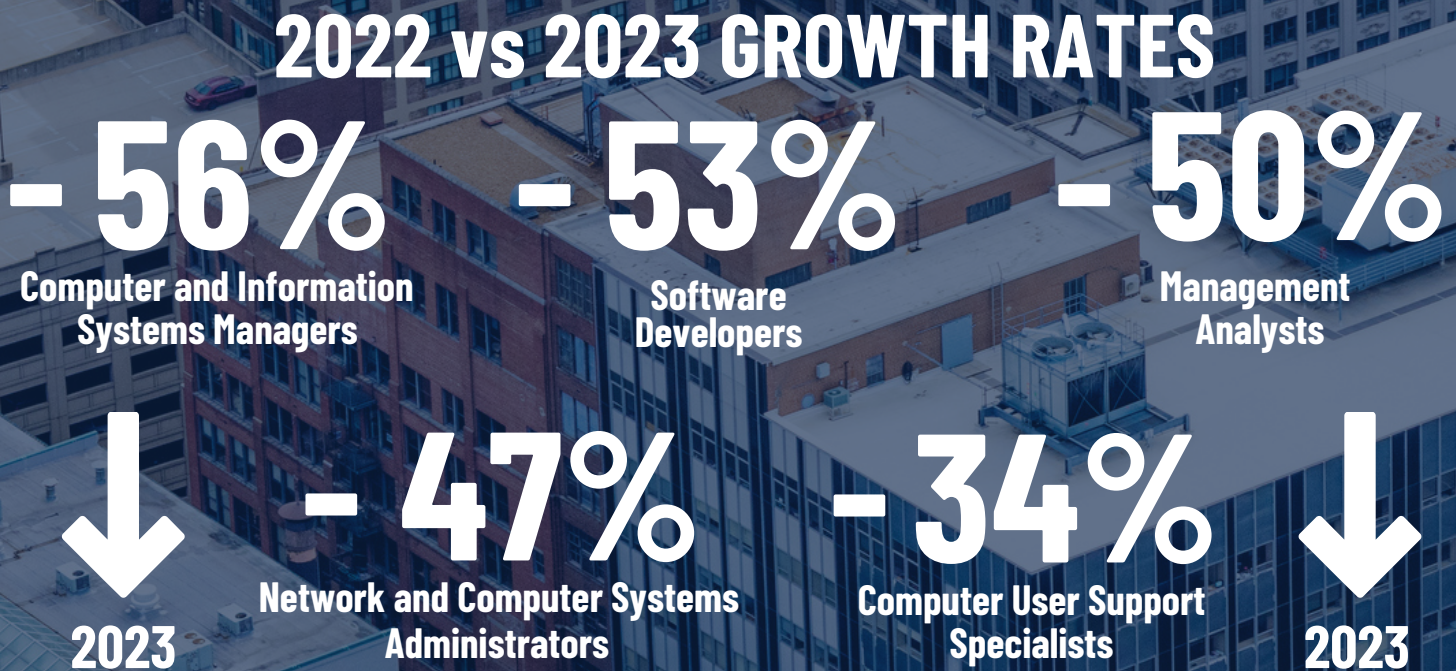
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GROWTH RATE

of total job postings for top 5 occupations



5 YEAR GROWTH RATE OF TOTAL JOB POSTINGS BY TOP OCCUPATIONS



AVERAGE ANNUAL WAGES

of top 5 tech occupations in 2023

**Computer and Information
Systems Managers**

\$108K

Average STL Salary

**Average US Salary
\$114,400**

↓ 5% LOWER

**Software
Developers**

\$115K

Average STL Salary

**Average US Salary
\$117,200**

↓ 2% LOWER

**Management
Analysts**

\$84K

Average STL Salary

**Average US Salary
\$82,300**

↑ 2% HIGHER

**Computer User Support
Specialists**

\$44K

Average STL Salary

**Average US Salary
\$47,700**

↓ 8% LOWER

**Network and Computer
System Administrators**

\$79K

Average STL Salary

**Average US Salary
\$82,400**

↓ 5% LOWER

HIGHER EDUCATION

STL institutions offering tech certificates or degrees

UNIVERSITY



UNIVERSITY



UNIVERSITY



UNIVERSITY



UNIVERSITY



UNIVERSITY



UNIVERSITY



UNIVERSITY



UNIVERSITY



UNIVERSITY



UNIVERSITY



UNIVERSITY



UNIVERSITY



COLLEGE



COLLEGE



COLLEGE



HIGHER EDUCATION

STL institutions offering tech certificates or degrees

COLLEGE

RANKEN
TECHNICAL COLLEGE

COLLEGE

LC LEWIS & CLARK
COMMUNITY COLLEGE
Empowering People

COLLEGE

KC
KASKASKIA
COLLEGE

COLLEGE

Blackburn COLLEGE
Learn. Work. Earn.

COLLEGE

Jefferson
College

COLLEGE

P
PRINCIPIA COLLEGE

COLLEGE

EAST CENTRAL COLLEGE

**The St. Louis Metro
The 15 county bistate and
Metropolitan Statistical Area**



TECH SKILLS DEMAND

top requested certificates of 2023

CERTIFICATE	TOTAL JOB ADS
1. Secret Clearance	1,906
2. Certified Information Systems Security Professional (CISSP)	525
3. Project Management Professional (PMP)	462
4. Cisco Certified Network Associate (CCNA)	369
5. CompTIA Security+ CE (Continuing Education) Certification	304
6. Certified Public Accountant (CPA)	245
7. Certified Information Security Manager (CISM)	220
8. Systems Security Certified Practitioner (SSCP)	217
9. Certified Information Systems Auditor (CISA)	214
10. GIAC Security Essentials Certification (GSEC)	204
11. Driver's License	184
12. Cisco Certified Network Professional (CCNP)	147
13. Certified ScrumMaster (CSM)	125
14. Microsoft Certified Solutions Expert (MCSE)	97
15. CompTIA A+ Certification (A+ Certification)	89
16. Chartered Financial Analyst (CFA)	79
17. CompTIA Advanced Security Practitioner (CASP)	74
18. Certified Cloud Security Professional (CCSP)	73
19. Series 66 - Uniform Combined State Law (Series 66)	68
20. Certification in Risk and Information Systems Control (CRISC)	62
21. GIAC Certified Incident Handler (GCIH)	58
22. GIAC Security Leadership Certification (GSLC)	56
23. Network+ Certification	56
24. Microsoft Certified Solutions Associate (MCSA)	50
25. Certified Internal Auditor (CIA)	48
26. Series 63	46
27. Series 7	45

JobsEQ Labor Market Research 2023

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TECH SKILLS DEMAND

top requested certificates of 2023

CERTIFICATE	TOTAL JOB ADS
28. Cisco Certified Internetwork Expert (CCIE)	40
29. Amazon Web Services Certification (AWS Certification)	36
30. Certified Fraud Examiner (CFE)	31
31. AWS Certified Solutions Architect	30
32. GIAC Certified Intrusion Analyst (GCIA)	30
33. Offensive Security Certified Professional (OSCP)	30
34. Microsoft Certified Professional (MCP)	29
35. Certified System Administrator (CSA)	28
36. Certified Management Accountant (CMA)	27
37. Licensed Professional Engineer	27
38. VMware Certified Professional (VCP)	24
39. GIAC Certified Enterprise Defender (GCED)	23
40. Certified Financial Risk Manager (FRM)	22
41. Certified Security Software Lifecycle Professional (CSSLP)	22
42. Implementation Specialist Certification	22
43. Information Systems Audit and Control Association Certification	22
44. Certified Financial Planner (CFP)	21
45. Fellow, Life Management Institute (FLMI)	21
46. PMI Agile Certified Practitioner (PMI-ACP)	21
47. Associate of the Society of Actuaries (ASA)	19
48. Certified Scrum Professional (CSP)	19
49. Microsoft Office Specialist (MOS)	19
50. Certified Business Continuity Professional (CBCP)	18
51. Cisco Certified Networking Technician (CCENT)	18
52. Microsoft Certified Solution Developer (MCSD)	18
53. Certification in Cardiopulmonary Resuscitation (CPR)	17
54. Salesforce Certified Administrator	17

JobsEQ Labor Market Research 2023

Need more data? Contact Emily@TechSTL.com

TECH SKILLS DEMAND

top requested hard skills of 2023

HARD SKILL	TOTAL JOB ADS
1. Agile	6,508
2. Microsoft Excel	6,329
3. Structured Query Language (SQL)	6,242
4. Microsoft Office	5,043
5. Computer Programming/Coding	4,650
6. Java	4,582
7. Python	4,021
8. Amazon Web Services (AWS)	3,240
9. Microsoft PowerPoint	3,121
10. Microsoft Azure	2,779
11. Linux	2,767
12. Oracle	2,694
13. JavaScript	2,473
14. Information Security	2,361
15. Scrum	2,311
16. Atlassian JIRA	2,289
17. Change Management	2,161
18. Presentation	2,051
19. Data Analysis	2,010
20. Git	1,993
21. Finance	1,925
22. Microsoft Outlook	1,918
23. Mathematics	1,840
24. Microsoft Word	1,747
25. Software Development	1,717
26. Computer Networking	1,606
27. Tableau	1,572

JobsEQ Labor Market Research 2023

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TECH SKILLS DEMAND

top requested hard skills of 2023

HARD SKILL	TOTAL JOB ADS
28. Statistics	1,403
29. UNIX	1,330
30. Salesforce	1,309
31. Marketing	1,305
32. Extract, Transform, Load (ETL)	1,272
33. Customer Relationship Management (CRM)	1,263
34. CSS	1,257
35. SAP	1,223
36. Microsoft SharePoint	1,142
37. Kubernetes	1,119
38. Extensible Markup Language (XML)	1,109
39. Microsoft Power BI	1,099
40. Personal Computers (PC)	1,086
41. Information Technology Infrastructure Library (ITIL)	1,072
42. Angular	1,058
43. Microsoft Active Directory	1,052
44. Systems Development Life Cycle (SDLC)	1,051
45. Docker	1,047
46. Application Development	1,046
47. IT Support	1,043
48. Configuration Management	1,015
49. Microsoft PowerShell	910
50. Pivotal Spring Boot	904
51. ServiceNow	857
52. Google	853
53. Machine Learning	819
54. Telecommunications	807

JobsEQ Labor Market Research 2023

Need more data? Contact Emily@TechSTL.com

INFORMATION

LOOKING FOR MORE

information about the work of TechSTL?

TechSTL is proud to serve as the first Tech Council of the St. Louis Metro. Founded in 2022 in partnership with the City of St. Louis, we are a fully independent 501(c)(6) membership-based community-impact organization committed to growing the innovation pipeline of the 15-county bistate. Our membership base is comprised of over 500 for-profit and nonprofit St. Louis organizations, as well as thousands of innovators and students who reside in the Metro.

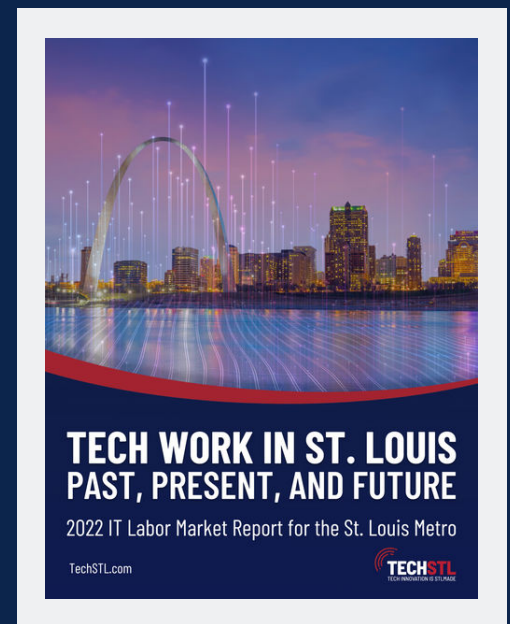
The TechSTL vision is to make St. Louis the most diverse innovation hub in the country by 2027 and we are working to achieve that goal through data stewardship, ecosystem capacity building, and growing a more vibrant tech community through high-value events and programming.



2024 Sponsorship Kit
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2022 Jobs Report
[DOWNLOAD](#)



IT Labor Market Report
[DOWNLOAD](#)



TECHSTL

TECH INNOVATION IS STLMADE

**JOIN US AS WE GROW
THE INNOVATION PIPELINE
OF THE ST. LOUIS METRO**

**CATALYZING TECH JOBS,
TECH STARTUPS &
TECH INNOVATION**

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