

Build better skills for better performance."

Connecticut Technology Labor Market Landscape

March 2024

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Methodology

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Methodology Definitions

Lightcast

Data from over 65,000 sources a day, contributing to a database with over 1 billion job postings.

Entry – Level Roles

Recently graduated from a degree program or with 0-3 years of experience. **Types of Professionals – Technology** Type 1: Technology Professionals working in Technology Industry



Type 2: Technology Professionals working outside Technology Industry



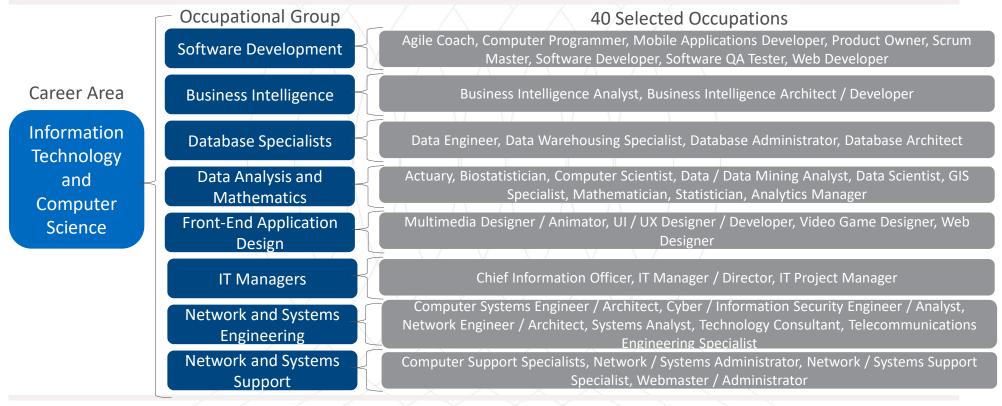
Type 3: Professional with Generalist Technology Skills



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*Source: Gartner Consulting

Methodology Technology Professionals: Selected Occupations – Lightcast Occupational Taxonomy (LOT)



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*Source: Lightcast Taxonomy

Methodology Selected Regions

| Region | Cities | Good Jobs Challenge & CT's Regional Sector Partnerships |
|--|--|--|
| Southwest Connecticut Data- dependent Tech Enabled | Greenwich, Stamford, Darien, New Canaan, Wilton, Norwalk, Westport, Weston, Easton, Fairfield, Bridgeport, Stratford, Trumbull, Monroe, Shelton, Derby, Ansonia, Seymour, Oxford, Beacon Falls | SW Data- dependent Tech SW Data- SU DATA- |

3/9/2024 *Source: Connecticut's Official State Website BUSINESS-HIGHER EDUCATION FORUM | WWW.BHEF.COM | ©BHEF

Key Takeaways

- There have been 6,866 job postings for entry-level tech talent in CT over the past 12 months
 - 2,129 Type 1 Job Postings
 - 4,737 Type 2 Job Postings
 - 24,219 Type 3 Job Postings
- There is a considerable pool of talent that could be trained or upskilled for tech jobs (approximately 1 million people, based on educational attainment in CT).
- Most open tech jobs are outside of the tech industry in Connecticut.
 - Convening employers by industry to develop new pathways may be beneficial.
- Although this data is showing entry-level tech job openings, most are looking for 2-3 years of experience at a minimum. This may be a good opportunity for introducing more work-based learning like internships.
- There is very little demand for entry-level talent that requires only an associate's degree (1,271 Job Postings state-wide).
- Postsecondary program completion data suggests that there are opportunities to:
 - Invest in new or expanded training programs to meet labor market needs for occupations like Software Developers and Network/Systems Engineers.
 - Increase efforts to retain completers of data analytics and business analysis programs in CT jobs.

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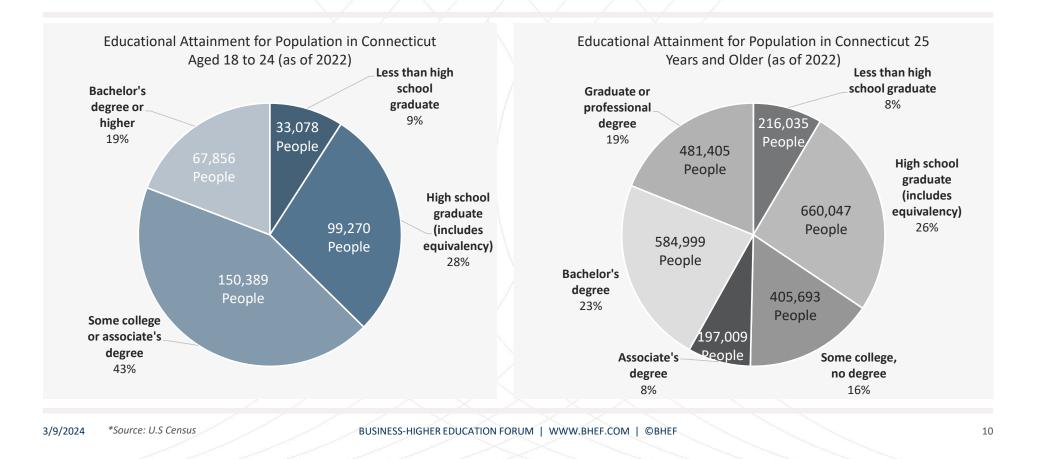
Connecticut Economic Overview

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Educational Attainment for Population in Connecticut

Majority of population aged 18-24 in Connecticut have a high school diploma or some college/an associate's degree.



Connecticut Unemployment Rate

| | Counties with the Highest Unemployment Rate in Connecticut | |
|---|--|--------------------------|
| | County | Unemployment Rate |
| | Hartford | 5.6 |
| 3.6 | Waterbury | 5.3 |
| Connecticut October 2023 | Bridgeport | 4.9 |
| Unemployment Rate | Ansonia | 4.8 |
| | New Britain | 4.5 |
| 3.9 United States October 2023 Unemployment Rate | New London | 4.5 |
| | Stratford | 4.3 |
| | Derby | 4.2 |
| | East Hartford | 4.2 |
| | Darien | 4 |
| | Mansfield | 4 |
| | Naugatuck | 4 |
| | New Haven | 4 |
| | | |

Google Connecticut Entry – Level Tech Talent Demand

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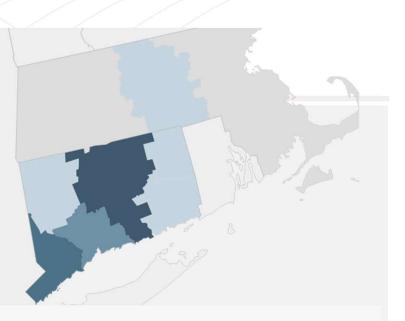
Connecticut Technology Job Postings over Past 12 Months (Entry - Level)

6,866

Cumulative Active Unique Entry – Level Job Postings for **Technology Occupations** for **any Industry** (Past 12 Months) in CT.

69%

Of Entry-Level Technology Job Postings in CT are **outside of Technology Industry**.



Hartford – East Hartford - Middletown 3,216 Job Postings

Bridgeport – Stamford - Norwalk 1,697 Job Postings

New Haven – Milford 855 Job Postings

3/9/2024 *Source: Lightcast

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*The darker the shading indicates a denser number of job of job postings 13

Connecticut Technology Job Postings Over Past 5 Years (Entry - Level)



Entry – Level Job Postings Trend for Technology Occupations in any Industry in CT Past 5 Years

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3/9/2024 *Source: Lightcast
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Top Companies Hiring for Entry – Level Technology Talent in Connecticut

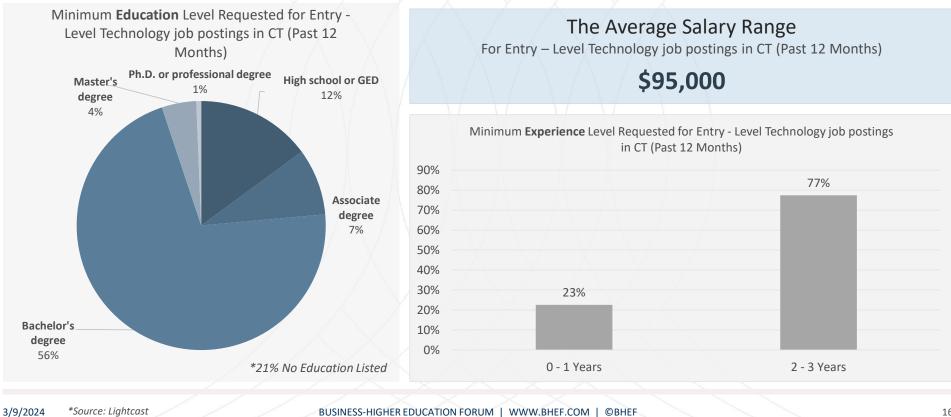
| Travelers | 387 |
|-----------------------|-----|
| Cigna | 156 |
| CVS Health | 118 |
| General Dynamics | 117 |
| Deloitte | 108 |
| The Hartford | 107 |
| Eversource Energy | 103 |
| Lumen Technologies | 93 |
| Raytheon Technologies | 91 |
| Yale University | 80 |
| The Cigna Group | 69 |
| UnitedHealth Group | 68 |
| Elevance Health | 62 |
| Guidehouse | 62 |
| Accenture | 61 |
| Yale New Haven Health | 56 |
| Humana | 56 |

| 1 | Nelnet | 45 |
|---|--|----|
| | ASML | 43 |
| | KPMG | 42 |
| | Spectrum | 40 |
| | Ford | 39 |
| | Pearson Education | 38 |
| | Community Health Center | 38 |
| | Capital One | 37 |
| | Compassmsp | 33 |
| | Marriott International | 28 |
| | The College Board | 27 |
| | Gartner | 26 |
| | Hartford HealthCare | 26 |
| | Infosys | 25 |
| | Webster Bank | 25 |
| | Logicalis | 24 |
| | United States Department of the Treasury | 24 |
| | - $ -$ | |

| Interactive Brokers | 24 |
|---------------------------|----|
| Gsk Solutions | 23 |
| Frontier Communications | 23 |
| Сосс | 22 |
| Sacred Heart University | 21 |
| University of Connecticut | 21 |
| Prime Therapeutics | 21 |
| Red River | 21 |
| FactSet Research Systems | 20 |
| Advantage Solutions | 19 |
| Pratt & Whitney | 19 |
| Lincoln Financial Group | 19 |
| Henkel | 19 |
| Expedia Group | 19 |
| PricewaterhouseCoopers | 18 |
| Stanley Black & Decker | 17 |
| | |

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Connecticut Technology Job Postings Education, Experience and Average Advertised Salary (Entry - Level)



Top Job Titles Posted for Entry - Level Technology Roles in Connecticut (Past 12 Months)

Computer Support Specialist **1,272** Job Postings (Past 12 Months)

Software Developer / Engineer 1,131 Job Postings (Past 12 Months)

Computer Systems Engineer/Architect **330** Job Postings (Past 12 Months) Data / Data Mining Analyst 291 Job Postings (Past 12 Months)

Technology Consultant 263 Job Postings (Past 12 Months)

Cyber / Information Security Engineer / Analyst **261** Job Postings (Past 12 Months) Systems Analyst 247 Job Postings (Past 12 Months)

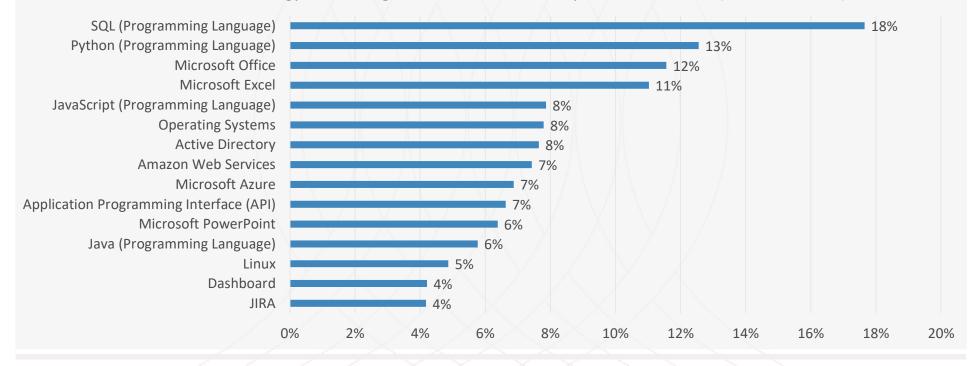
IT Manager 229 Job Postings (Past 12 Months)

Business Intelligence Architect / Developer **203** Job Postings (Past 12 Months)

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Top Software Skills Requested for Entry – Level Technology Talent in Connecticut (Past 12 Months)

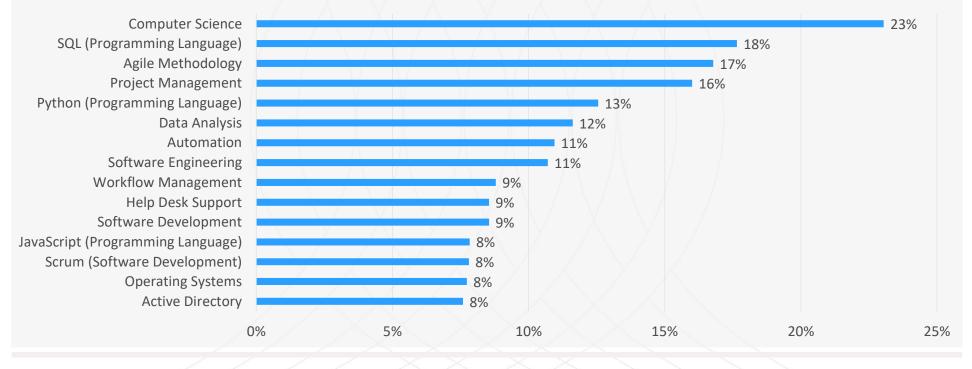


Percent of Technology Job Postings in Connecticut that Request Software Skill (Past 12 Months)

3/9/2024 *Source: Lightcast

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Top Specialized Skills Requested for Entry - Level Technology Talent in Connecticut (Past 12 Months)

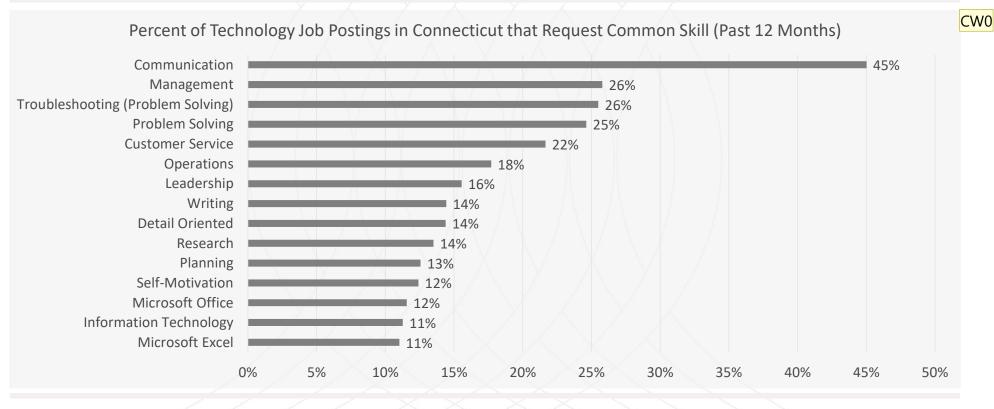


Percent of Technology Job Postings in Connecticut that Request Specialized Skill (Past 12 Months)

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Top Common Skills Requested for Entry – Level Technology Talent in Connecticut (Past 12 Months)



3/9/2024 *Source: Lightcast

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CW0 Update title of slide to Common skill Candace Williams, 2024-01-29T14:35:18.244

Top Qualifications Requested for Entry - Level Technology Talent in Connecticut (Past 12 Months)

| Qualification | Number of Postings Requesting Qualification |
|---|--|
| CompTIA A+ | 237 |
| Security Clearance | 128 |
| CompTIA Network+ | 112 |
| Certified Information Systems Security Professional | 106 |
| Microsoft Certified Professional | 91 |
| CompTIA Security+ | 87 |
| Actuarial Exams | 69 |
| Secret Clearance | 61 |
| Cisco Certified Network Associate | 60 |
| Certified Information System Auditor (CISA) | 56 |
| Project Management Professional Certification | 56 |
| Certified Information Security Manager | 52 |
| Master Of Business Administration (MBA) | 45 |
| Registered Nurse (RN) | 40 |
| GIAC Certifications | 38 |

3/9/2024 *Source: Lightcast

Hartford HealthCare Connecticut Entry – Level Tech Talent Demand

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Connecticut Technology Job Postings by Industry (Entry - Level)

31% of Technology Job Postings are in Tech Industries

| | | | Manufacturing 13% | | Information 8% |
|--|------------------------------|---|--|--------------------|-------------------------------|
| Professional, Scientific, and Technical Services 24% | Finance and Insurance 23% | Other (Industries that make up <5%) 17% | Health Care and Social Assistance 6% | Retail Trade 5% | Educational Services 5% |

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Connecticut Technology Job Postings by Industry (Entry - Level)

Professional, Scientific, and Technical Services

24% or 1,380 Entry – Level Tech Job Postings

- Top 3 Occupations
 - Computer Support Specialist
 - 303 Postings
 - Software Developer / Engineer
 - 220 Postings
 - Business Intelligence Architect
 - 87 Postings
- Top Companies Hiring
 - Deloitte 108 Postings
 - Guidehouse- 62 Postings
 - Accenture 61 Postings

Finance and Insurance

23% or 1,328 Entry – Level Tech Job Postings

- Top 3 Occupations
 - Software Developer / Engineer
 - 253 Postings
 - Computer Support Specialist
 - 86 Postings
 - Actuary
 - 83 Postings
- Top Companies Hiring
 - Travelers 387 Postings
 - Cigna 156 Postings
 - The Hartford- 107 Postings

Manufacturing

13% or 781 Entry – Level Tech Job Postings

- Top 3 Occupations
 - Software Developer / Engineer
 - 172 Postings
 - Computer Systems Engineer
 - 116 Postings
 - Computer Support Specialist
 - 93 Postings
- / Top Companies Hiring
 - General Dynamics 117 Postings
 - Raytheon Technologies 91 Postings
 - ASML- 43 Postings

Connecticut Technology Job Postings by Industry (Entry - Level)

Information

8% or 1,054 Entry – Level Tech Job Postings

- Top 3 Occupations
 - Software Developer / Engineer
 - 109 Postings
 - Computer Support Specialist
 - 65 Postings
 - Computer Systems Engineer
 - 34 Postings
- Top Companies Hiring
 - Lumen Technologies 93 Postings
 - Spectrum 40 Postings
 - Pearson Education 38 Postings

Health Care and Social Assistance

7% or 334 Entry – Level Tech Job Postings

- Top 3 Occupations
 - Computer Support Specialists
 - 97 Postings
 - Software Developer / Engineer
 - 24 Postings
 - Systems Analyst
 - 23 Postings
- Top Companies Hiring
 - Yale New Haven Health 56 Postings
 - Community Health Center 38
 Postings
 - Hartford Healthcare -26 Postings

Retail Trade

5% or 299 Entry – Level Tech Job Postings

- Top 3 Occupations
 - Computer Support Specialist
 - 58 Postings
 - Software Developer / Engineer
 - 57 Postings
 - Data Scientist
 - 13 Postings
- / Top Companies Hiring
 - CVS Health– 118 Postings
 - Logicalis- 24 Postings
 - Town Fair Tire 15 Postings

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Stanley Black & Decker

Connecticut

Entry – Level Professionals with Generalist Technology Skills Demand

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Business Technology Skills Cluster

Business Intelligence, Business Intelligence Software, Financial Analysis, Financial Modeling

6,204

Cumulative Active Unique Entry – Level and Job Postings for Business Technology Generalist Positions (Past 12 Months) in Connecticut.

\$83.3K

Median Advertised Salary

Top In – Demand Technology Skills

Excel, SQL, Tableau, Power BI, Python, Financial Analysis, Data Analysis

| Yale New Haven Health | 213 |
|--------------------------|-----|
| Travelers | 190 |
| M&T Bank | 182 |
| Cigna | 179 |
| Yale University | 177 |
| CVS Health | 98 |
| Elevance Health | 87 |
| UnitedHealth Group | 80 |
| Lumen Technologies | 79 |
| Eversource Energy | 74 |
| The Hartford | 72 |
| Lovesac Furniture Co. | 67 |
| The Cigna Group | 62 |
| Walgreens Boots Alliance | 57 |
| Marriott International | 49 |
| | |

Financial Analyst **510**

Job Postings (Past 12 Months)

Business / Management Analyst

319 Job Postings (Past 12 Months)

Accountant **299**

Job Postings (Past 12 Months)

3/9/2024 *Source: Lightcast

Data Technology Skills Cluster

Data Analysis, Data Science, Data Visualization, Statistical Software, Statistics, Data Management, Data Storage, Data Architecture and Admin, Databases

13,538

Cumulative Active Unique Entry – Level and Job Postings for Data Technology Generalist Positions (Past 12 Months) in Connecticut.

\$80.3K

Median Advertised Salary

Top In – Demand Technology Skills Excel, SQL, Dashboard, Python, Data Analysis, Project Management, Auditing

Business / Management Analyst 457 Job Postings (Past 12 Months)

Financial Analyst **397** Job Postings (Past 12 Months)

| Yale New Haven Health | 463 |
|---------------------------------------|-----|
| Yale University | 345 |
| Cigna | 264 |
| Travelers | 252 |
| Connecticut Children's Medical Center | 173 |
| Eversource Energy | 166 |
| CVS Health | 161 |
| Raytheon Technologies | 140 |
| Alternative Services Connecticut | 140 |
| ASML | 127 |
| UnitedHealth Group | 127 |
| State Of Connecticut | 123 |
| The Cigna Group | 118 |
| Elevance Health | 115 |
| Lumen Technologies | 114 |
| | |

Office / Administrative Assistant **393** Job Postings (Past 12 Months)

3/9/2024 *Source: Lightcast

Coding and Scripting Languages Skills Cluster

C and C++, Java, JavaScript and jQuery, Other Programming Languages, Scripting, Scripting Languages, Software Development Tools *Excludes 40 selected tech occupations

1,338

Cumulative Active Unique Entry – Level and Job Postings for Coding and Scripting Generalist Positions (Past 12 Months) in Connecticut.

\$78.2K

Median Advertised Salary

Top In – Demand Technology Skills Python, Excel, SQL, C, Scripting, Project Management

Business / Management Analyst 65 Job Postings (Past 12 Months)

Industrial Engineer

49 Job Postings (Past 12 Months)

| ASML | 90 |
|---------------------------------------|----|
| CDM Smith | 32 |
| Raytheon Technologies | 30 |
| Ascena Retail Group | 25 |
| Chegg | 21 |
| Shake Shack | 21 |
| Intel | 20 |
| Connecticut Children's Medical Center | 19 |
| Lumen Technologies | 18 |
| General Dynamics | 18 |
| Rite Aid | 18 |
| UnitedHealth Group | 17 |
| Capital One | 16 |
| The Hartford | 15 |
| Yale New Haven Health | 14 |
| | |

Project Manager 36 Job Postings (Past 12 Months)

3/9/2024 *Source: Lightcast

Human Resources Software Skills Cluster HR Software

1,261

Cumulative Active Unique Entry – Level and Job Postings for HR Software Generalist Positions (Past 12 Months) in Connecticut.

\$64.1K

Median Advertised Salary

Top In – Demand Technology Skills Human Resources Information System (HRIS), Excel, Kronos, Workday, Auditing

HR / Labor Relations Specialist 255 Job Postings (Past 12 Months)

Human Resources Assistant

109 Job Postings (Past 12 Months)

| Hartford HealthCare | 84 |
|---------------------------|----|
| Community Health Center | 50 |
| Yale University | 44 |
| Deloitte | 31 |
| Yale New Haven Health | 28 |
| Global Medical Response | 18 |
| State Of Connecticut | 16 |
| Guidehouse | 12 |
| Benchmark Senior Living | 11 |
| ABS Kids | 8 |
| Ryder | 8 |
| Healthplanone | 8 |
| SS&C Technologies | 7 |
| ASML | 7 |
| University of Connecticut | 7 |
| | |

Recruiter

Hartford HealthCare

86 Job Postings (Past 12 Months)

3/9/2024 *Source: Lightcast

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0 /

Technical Support and Services Skills Cluster

Technical Support and Services *Excludes 40 selected tech occupations

1,878

Cumulative Active Unique Entry – Level and Job Postings for Tech Support Generalist Positions (Past 12 Months) in Connecticut.

\$64.6K

Median Advertised Salary

Top In – Demand Technology Skills

Excel, Microsoft Office, Operating Systems, Technical Support, Technical Services, Project Management, Help Desk Support

MRI / CT Technician / Technologist 89 Job Postings (Past 12 Months)

Repair / Service Technician

84 Job Postings (Past 12 Months)

Frans Global Projects Group 67 **Eversource Energy** 63 Yale University 42 **Community Health Center** 36 Yale New Haven Health 36 Comcast 28 Cigna 17 **Raytheon Technologies** 16 Travelers 16 Maximus 15 **CDM Smith** 14 **Radiology Partners** 12 Saint Francis Health System 12 TRUMPF 11 American Heart Association 11

Customer Service Representatives

76 Job Postings (Past 12 Months)

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Connecticut Occupations Deep Dive

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Computer Support Specialist

Entry – Level Tech Job Postings



1,272

Cumulative Active Unique **Entry – Level** Job Postings for Computer Support Specialist (Past 12 Months) in Connecticut.

\$54.9K Median Advertised Salary

Entry – Level and Associate's Tech Job Postings



431

Cumulative Active Unique **Entry – Level and Associate's** Job Postings for Computer Support Specialist (Past 12 Months) in Connecticut.

\$53.4K Cor Median Advertised Salary

In – Demand Skill

Help Desk Support

Active Directory

Technical Support

Computer Hardware

Operating Systems

Service Now

Excel

Dynamic Host Configuration Protocol

Windows 10

Information Technology Infrastructure Library Skill Growth Relative to Market

Rapidly Growing

Lagging

Rapidly Growing

Growing

Rapidly Growing

Growing

Rapidly Growing

oldry Growing

Rapidly Growing

Growing

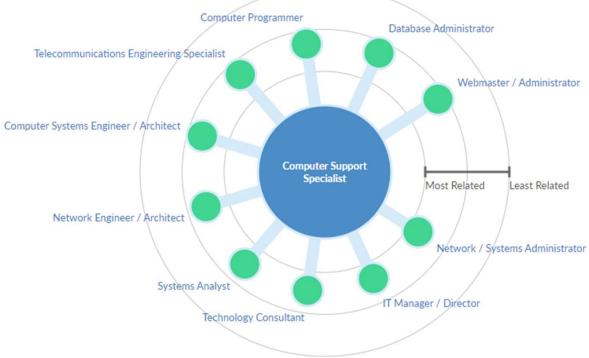
Growing

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Computer Support Specialist: Career Pathway

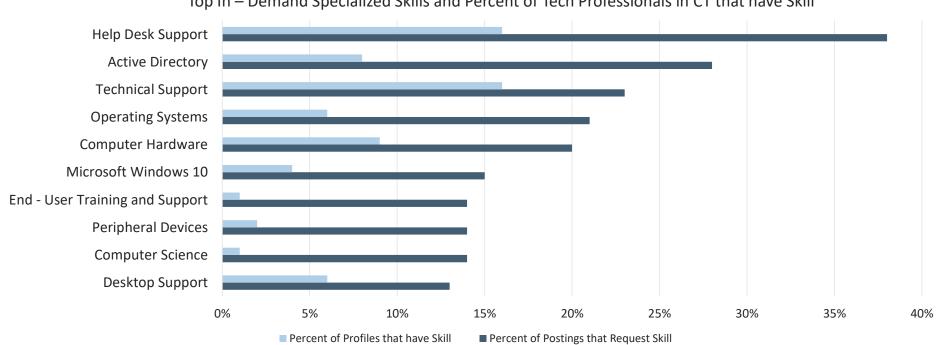
Below are the top listed next – step jobs for Computer Support Specialist



Target Advancement Occupation Network / Systems Computer Support Administrator Specialist \$54.9K \$82.9K Median Advertised Salary Median Advertised Salary Most Needed Transitional Skills Linux System Administration Scripting Network Administration Ansible Python Automation Unix

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Computer Support Specialist: Skills Gap Assessment



Top In – Demand Specialized Skills and Percent of Tech Professionals in CT that have Skill

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Software Developer / Engineer

Entry – Level Tech Job Postings

1,131

Cumulative Active Unique Entry - Level Job Postings for Software Developer (Past 12 Months) in Connecticut.

\$111.9K Median Advertised Salary

Entry – Level and Associate's Tech Job Postings



\$103.2K

103

Cumulative Active Unique Entry – Level and Associate's Job Postings for Software Developer (Past 12 Months) in Connecticut.

Median Advertised Salary

| In – Demand Skill | Skill Growth Relative to Market |
|----------------------|---------------------------------|
| Computer Science | Rapidly Growing |
| Software Engineering | Rapidly Growing |
| Agile Methodology | Growing |
| Software Developer | Rapidly Growing |
| SQL | Stable |
| Python | Rapidly Growing |
| JavaScript | Growing |
| AWS | Rapidly Growing |
| Java | Growing |
| API | Growing |

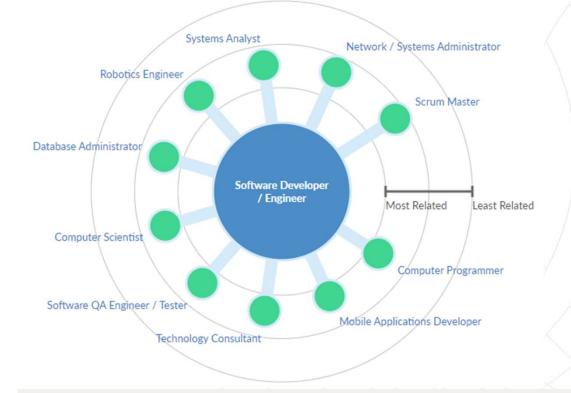
Rapidly Growing

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Software Developer: Career Pathway

Below are the top listed feeder jobs for Software Developer

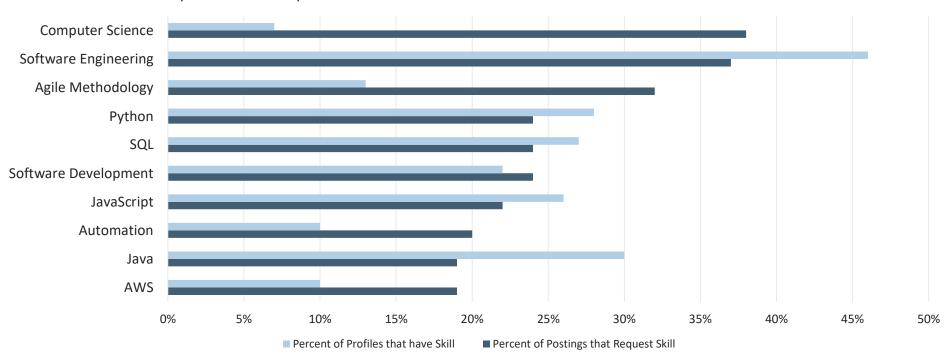


Target Advancement Occupation Software Software QA **Developer Engineer / Tester** \$102K \$140K Median Advertised Salary Median Advertised Salary Most Needed Transitional Skills Software Engineering **Full Stack Development** Amazon Web Services React.js **Kubernetes** Angular Docker Microservices

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Software Developer: Skills Gap Assessment



Top In – Demand Specialized Skills and Percent of Tech Professionals in CT that have Skill

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Data / Data Mining Analyst, Statistician, Data Engineer, Data Warehousing Specialist, Database Administrator and Architect

In

Entry – Level Tech Job Postings

Cumulative Active Unique Entry - Level Job Postings for Data Roles (Past 12 Months) in Connecticut.

\$91.5K Median Advertised Salary

Entry – Level and Associate's Tech Job Postings

149

839

Cumulative Active Unique Entry – Level and Associate's Job Postings for Data Roles (Past 12 Months) in Connecticut.

\$64K Median Advertised Salary

| In – Demand Skill | Skill Growth Relative to Market |
|-------------------|---------------------------------|
| Data Analysis | Rapidly Growing |
| SQL | Stable |
| Computer Science | Rapidly Growing |
| Python | Rapidly Growing |
| Data Management | Growing |
| Excel | Growing |
| Tableau | Rapidly Growing |
| Power Bl | Rapidly Growing |
| Dashboard | Rapidly Growing |
| R | Rapidly Growing |

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Data / Data Mining Analyst: Career Pathway

Actuary Biostatistician Data Engineer Data Scientist Data Scientist Data Scientist Data Scientist Data / Data Mining Analyst Most Related Least Related Business Intelligence Analyst Business Intelligence Architect / Developer

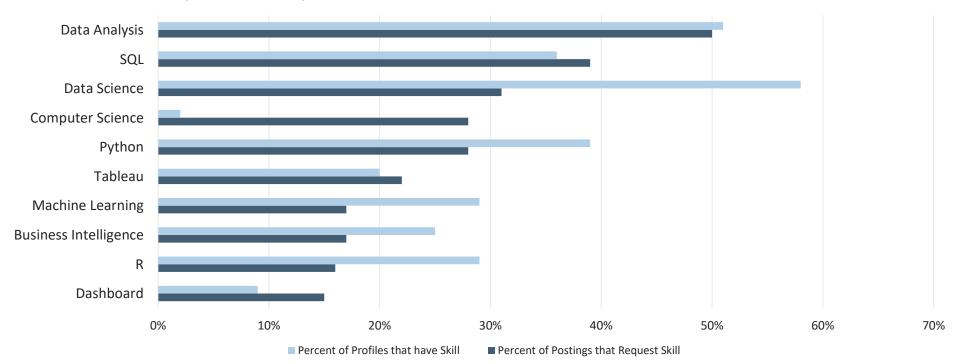
Below are the top listed next - steps jobs for Data / Data Mining

Target Advancement Occupation Database Data / Data Mining Architect Analyst \$127K \$93K Median Advertised Salary Median Advertised Salary Most Needed Transitional Skills Data Architecture Amazon Web Services Microsoft Azure Scalability Data Strategy **Data Engineering Big Data Apache Spark**

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Analyst

Data Scientist: Skills Gap Assessment



Top In – Demand Specialized Skills and Percent of Tech Professionals in CT that have Skill

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Business Management Analyst and Business Intelligence Analyst

Entry – Level Tech Job Postings

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1,257

Cumulative Active Unique **Entry – Level** Job Postings for Business Analyst (Past 12 Months) in Connecticut.

\$96.6K Median Advertised Salary

Entry – Level and Associate's Tech Job Postings



142

Cumulative Active Unique Entry – Level and Associate's Job Postings for Business Analyst (Past 12 Months) in Connecticut.

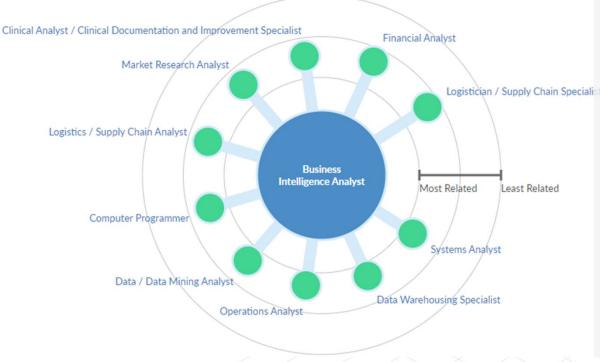
\$92.4K Median Advertised Salary

| In – Demand Skill | Skill Growth Relative to Market |
|---------------------|---------------------------------|
| SQL | Stable |
| Project Management | Growing |
| Data Analysis | Rapidly Growing |
| Business Process | Rapidly Growing |
| Workflow Management | Growing |
| Excel | Growing |
| PowerPoint | Rapidly Growing |
| Tableau | Rapidly Growing |
| Dashboard | Rapidly Growing |
| Power BI | Rapidly Growing |

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Business Intelligence Analyst: Career Pathway

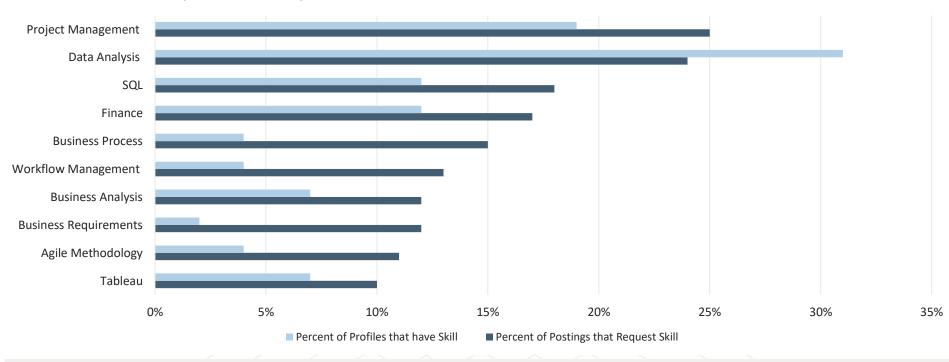
Below are the top listed feeder jobs for Business Intelligence Analyst



Target Advancement Occupation Business Data Warehousing Intelligence **Specialist** Analyst \$85K \$125K Median Advertised Salary Median Advertised Salary Most Needed Transitional Skills **SAP** Applications **Business Process Business Requirements Enterprise Resource Planning Business Intelligence** Finance Supply Chain Accounting

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Business Management Analyst: Skills Gap Assessment



Top In – Demand Specialized Skills and Percent of Tech Professionals in CT that have Skill

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Cyber / Information Security Engineer / Analyst, Systems Analyst, Network / Systems Administrator

Entry – Level Tech Job Postings



620

Cumulative Active Unique **Entry – Level** Job Postings for Cyber Roles (Past 12 Months) in Connecticut.

\$91.4K

Median Advertised Salary

Entry – Level and Associate's Tech Job Postings



167

Cumulative Active Unique Entry – Level and Associate's Job Postings for Cyber Roles (Past 12 Months) in Connecticut.

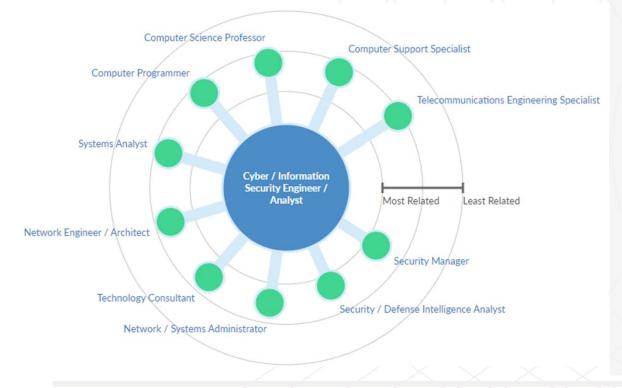
\$80.1K Median Advertised Salary

In – Demand Skill **Skill Growth Relative to Market Computer Science Rapidly Growing Cyber Security** Growing **Rapidly Growing** Auditing **Project Management** Growing Automation **Rapidly Growing Operating Systems Rapidly Growing** Microsoft Azure **Rapidly Growing** SQL Stable Excel Growing Linux Growing

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Cyber / Information Security Engineer / Analyst: Career Pathway

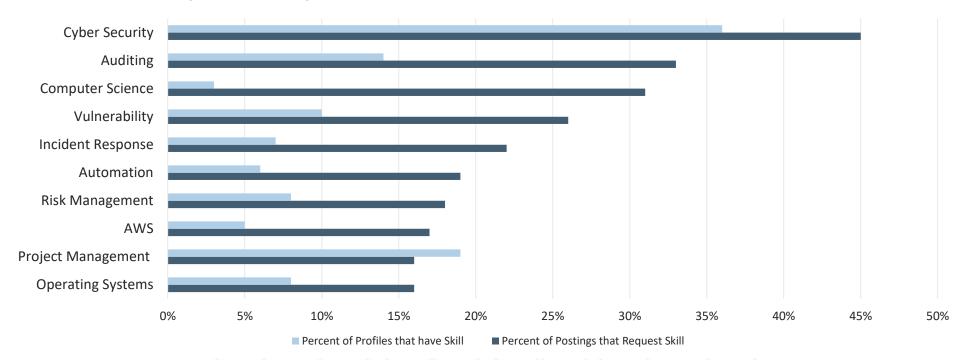
Below are the top listed feeder jobs for Cyber / ISE / Analyst



Target Advancement Occupation Network / Systems Cyber / ISE / **Administrator** Analyst \$98K \$125K Median Advertised Salary Median Advertised Salary Most Needed Transitional Skills **Cyber Security** Vulnerability **Incident Response Risk Analysis Risk Management** Security Information and Event Management Cyber Threat Intelligence Security Controls

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Cyber / Information Security Engineer / Analyst: Skills Gap Assessment



Top In – Demand Specialized Skills and Percent of Tech Professionals in CT that have Skill

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Connecticut Program Completion Data

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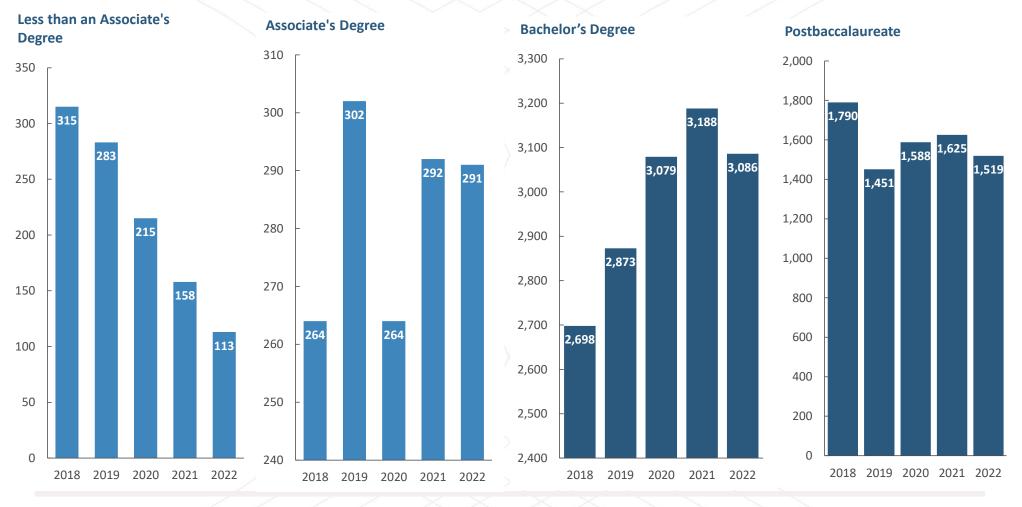
Technology Programs Completion Connecticut vs. Nearby States, 2022

| Tech | | |
|----------------------------|---|--|
| Program Completions (2022) | All Completions (2022) | Share of Total |
| 16,634 | 90,188 | 18.4% |
| 21,418 | 143,810 | 14.9% |
| 1,463 | 10,803 | 13.5% |
| 21,671 | 181,448 | 11.9% |
| 37,313 | 324,948 | 11.5% |
| 5,128 | 45,052 | 11.4% |
| 9,917 | 103,950 | 9.5% |
| 2,071 | 22,005 | 9.4% |
| 1,361 | 14,473 | 9.4% |
| 13,297 | 145,084 | 9.2% |
| 4,890 | 53,572 | 9.1% |
| 1,248 | 15,690 | 8.0% |
| 136,411 | 1,151,023 | 11.9% |
| | Program Completions (2022) 16,634 21,418 1,463 1,463 21,671 37,313 5,128 9,917 2,071 1,361 13,297 4,890 1,248 | Program Completions (2022) All Completions (2022) 16,634 90,188 21,418 143,810 1,463 10,803 10,803 10,803 11,463 10,803 11,463 10,803 11,463 10,803 11,463 10,803 11,463 10,803 11,463 324,948 11,373 324,948 11,361 103,950 11,361 14,473 11,3297 145,084 11,248 53,572 |

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50

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Technology Target Programs Job Postings & Completions in Connecticut, 2022

| | Program Occupational Group | Number of Entry- Level Job Openings in CT over the Past Year | Number of 2022 Program Completions in CT for a Bachelor's Degree or Less | - |
|-------|---|--|--|---|
| | Data Analysis and Mathematics, Database Specialist | 1,225 | 1,315 | 0.93:1 |
| () | Software Development and Front - End Application Design | n 2,143 | 783 | 4.3:1 |
| | Network and Systems Engineering and Support , IT Manager | 3,138 | 948 | 3:1 |
| | Business Intelligence | 360 | 444 | 0.8:1 |
| | Total | 6,866 | 3,490 | 2:1 |
| | ed to Create New or Strengthen Existing Pathways (Curriculum and Training) | | | d Job Placement Practices Getting Hired) |
| 3/9/: | 2024 | | | 51 |

Key Takeaways

- There have been 6,866 job postings for entry level tech talent in CT over the past 12 months
 - 2,129 Type 1 Job Postings
 - 4,737 Type 2 Job Postings
 - 24,219 Type 3 Job Postings
- There is a considerable pool of talent that could be trained or upskilled for tech jobs (approximately 1 million people, based on educational attainment in CT).
- Most open tech jobs are outside of the tech industry in Connecticut.
 - Convening employers by industry to develop new pathways may be beneficial.
- Although this data is showing entry level tech job openings, most are looking for 2-3 years of experience at a minimum. This may be a good opportunity for introducing more work-based learning like internships.
- There is very little demand for entry level talent that requires only an associate's degree (1,271 Job Postings state –wide).
- Postsecondary program completion data suggests that there are opportunities to:
 - Invest in new or expanded training programs to meet labor market needs for occupations like Software Developers and Network/Systems Engineers.
 - Increase efforts to retain completers of data analytics and business analysis programs in CT jobs.

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Skills Demand for EPIC EMR and EPIC EMR Certification in CT over the Past 12 Months

252

Cumulative Active Unique Job Postings for **Technology Occupations** that request EPIC EMR (Past 12 Months) in CT

72

Cumulative Active Unique Entry – Level Job Postings for **Technology Occupations** that request EPIC EMR (Past 12 Months) in CT

Entry – Level

Systems Analyst, Database Architect, Computer Support Specialist, Data Engineer

Yale New Haven Health, CTG, Yale University, Hartford Healthcare, Accenture

7,704 Cumulative Active Unique Job Postings that request EPIC EMR (Past 12 Months) in CT

4,246

Cumulative Active Unique Entry – Level Job Postings that request EPIC EMR (Past 12 Months) in CT

Entry – Level

Registered Nurse, Medical Assistant, Nursing Assistant, Office / Administrative Assistant, Medical Secretary

Hartford HealthCare, Yale New Haven Health, Actalent, Middlesex Health System, Epic Staffing, Trusted Health

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Region Southwest Area

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Google Southwest Connecticut Entry – Level Tech Talent Demand

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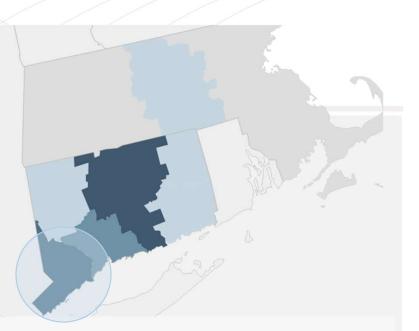
Southwest Connecticut Technology Job Postings over Past 12 Months (Entry - Level)

1,543

Cumulative Active Unique Entry – Level Job Postings for **Technology Occupations** for **any Industry** (Past 12 Months) in Southwest CT

59%

Of Entry-Level Technology Job Postings in Southwest CT are outside of Technology Industry.



Stamford 577 Job Postings

Norwalk 207 Job Postings

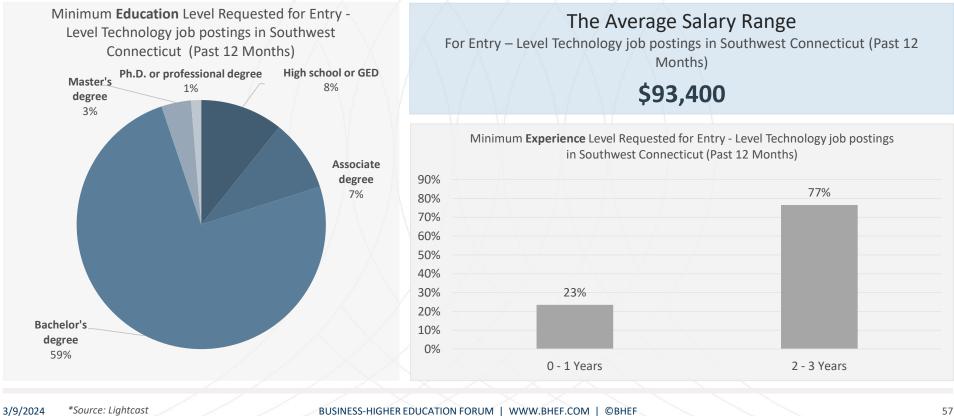
Bridgeport 173 Job Postings

3/9/2024 *Source: Lightcast

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*The darker the shading indicates a denser number of job of job postings 56

Southwest Connecticut Technology Job Postings Education, Experience and Average Advertised Salary (Entry - Level)



Top Companies Hiring for Entry – Level Technology Talent in Southwest Connecticut

| Lumen Technologies | 83 |
|--------------------------|----|
| Deloitte | 63 |
| Humana | 54 |
| ASML | 42 |
| Spectrum | 40 |
| Community Health Center | 32 |
| KPMG | 28 |
| Gartner | 25 |
| Logicalis | 24 |
| Interactive Brokers | 24 |
| Frontier Communications | 22 |
| Sacred Heart University | 20 |
| FactSet Research Systems | 20 |
| Webster Bank | 18 |
| United Rentals | 15 |
| NBC | 14 |
| Synchrony | 13 |
| | |

| TD Bank | 13 |
|--|-----|
| Hubbell | 11 |
| Castleton Commodities International | 11 |
| Bridgeport Public Schools | 9 |
| PricewaterhouseCoopers | 8 |
| Lockheed Martin | 8 |
| Henkel | 8 |
| United States Department of th Treasury | e 8 |
| Emoney Advisor | 7 |
| Ernst & Young | 7 |
| BlueTriton Brands | 6 |
| Lightbox | 6 |
| Mirador | 6 |
| Red Knight Solutions | 6 |
| Greenman & Pedersen | 6 |
| Worldwide TechServices | 6 |
| DraftKings | 6 |
| | |

| Childhood Cancer Society | 6 |
|--------------------------------|---|
| Pitney Bowes | 6 |
| ESF Camps | 6 |
| Sybex Support Services Pvt Ltd | 5 |
| Palo Alto Networks | 5 |
| Philips | 5 |
| Odyssey Re Holdings Corp | 5 |
| JPMorgan Chase | 5 |
| Edgewater Markets | 5 |
| Axiom Technologies | 5 |
| Citizens Bank | 5 |
| Aquarion Water Company | 5 |
| Healthplanone | 5 |
| Budderfly | 5 |
| Fairfield University | 5 |
| Charles It | 5 |
| | |

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Top Job Titles Posted for Entry - Level Technology Roles in Southwest Connecticut (Past 12 Months)

Computer Support Specialist 279 Job Postings (Past 12 Months)

Software Developer / Engineer 265 Job Postings (Past 12 Months)

Data / Data Mining Analyst 87 Job Postings (Past 12 Months) Computer Systems Engineer 69 Job Postings (Past 12 Months)

Cyber / Information Security Engineer / Analyst 69 Job Postings (Past 12 Months)

Technology Consultant 64 Job Postings (Past 12 Months) Business Intelligence Analyst 59 Job Postings (Past 12 Months)

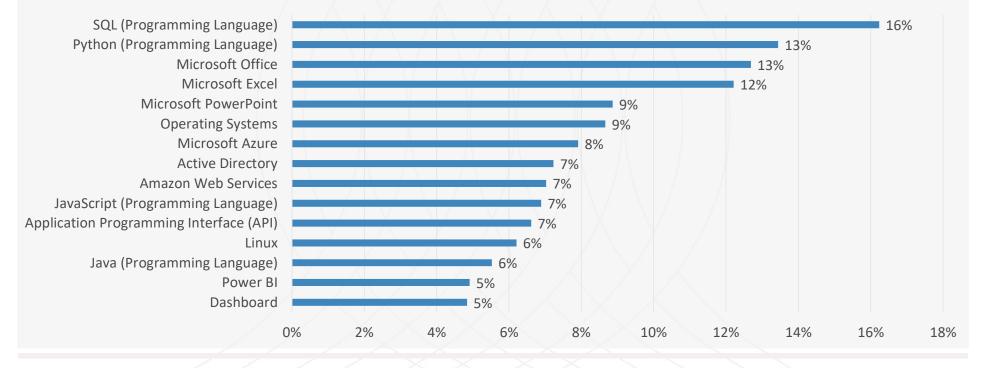
IT Manager 56 Job Postings (Past 12 Months)

Systems Analyst 52 Job Postings (Past 12 Months)

3/9/2024 *Source: Lightcast

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Top Software Skills Requested for Entry – Level Technology Talent in SW Connecticut (Past 12 Months)

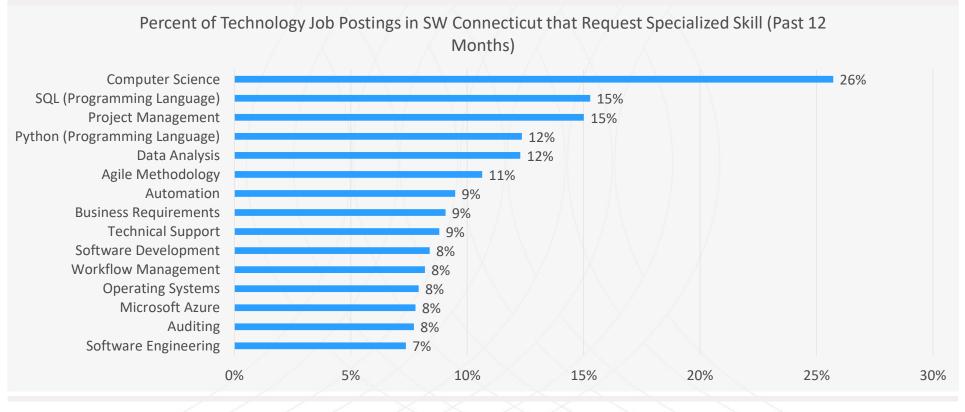


Percent of Technology Job Postings in SW Connecticut that Request Software Skill (Past 12 Months)

3/9/2024 *Source: Lightcast

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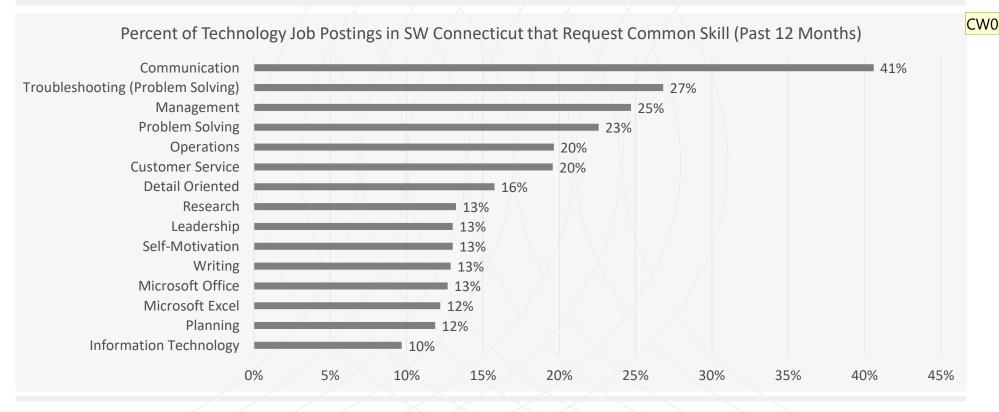
Top Specialized Skills Requested for Entry - Level Technology Talent in SW Connecticut (Past 12 Months)



3/9/2024 *Source: Lightcast

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Top Common Skills Requested for Entry – Level Technology Talent in SW Connecticut (Past 12 Months)



3/9/2024 *Source: Lightcast

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Slide 62

CW0 Update title of slide to Common skill Candace Williams, 2024-01-29T14:35:18.244

Top Qualifications Requested for Entry - Level Technology Talent in SW Connecticut (Past 12 Months)

| Qualification | Number of Postings Requesting Qualification |
|---|--|
| CompTIA A+ | 38 |
| Certified Information Systems Security Professional | 30 |
| Cisco Certified Network Associate | 23 |
| CompTIA Security+ | 23 |
| Microsoft Certified Professional | 20 |
| Certified Ethical Hacker | 19 |
| GIAC Certifications | 19 |
| Cisco Certified Network Professional | 15 |
| CompTIA Network+ | 14 |
| Project Management Professional Certification | 14 |
| Certified Information System Auditor (CISA) | 12 |
| Cardiopulmonary Resuscitation (CPR) Certification | 11 |
| Certified Information Security Manager | 11 |
| Registered Nurse (RN) | 10 |
| Licensed Clinical Social Worker (LCSW) | 10 |

3/9/2024 *Source: Lightcast



Southwest Connecticut

Entry – Level and Associate's Degree Only Tech Talent Demand

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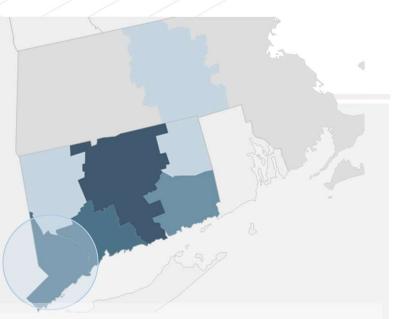
Southwest Connecticut Technology Job Postings over Past 12 Months (Entry – Level and Associate's)

245

Cumulative Active Unique Entry – Level and Associate's Job Postings for **Technology Occupations** for **any Industry** (Past 12 Months) in Southwest CT

69%

Of Entry-Level and Associate's Technology Job Postings in Southwest CT are outside of Technology Industry.



Stamford 88 Job Postings

Norwalk 38 Job Postings

Bridgeport 32 Job Postings

3/9/2024 *Source: Lightcast

BUSINESS-HIGHER EDUCATION FORUM | WWW.BHEF.COM | ©BHEF

*The darker the shading indicates a denser number of job of job postings 65

Top Companies Hiring for Entry – Level and Associate's Technology Talent in Southwest Connecticut

| Logicalis | 18 | Nfp | 2 |
|--|----|---------------------------------|---|
| Synchrony | 13 | Pearson Education | 2 |
| Lumen Technologies | 11 | Ac Energy Solutions Limited | 2 |
| Community Health Center | 7 | Hubbell | 2 |
| PricewaterhouseCoopers | 6 | Planetree | 2 |
| Greenman & Pedersen | 6 | Bridgeport Public Schools | 2 |
| Save The Children | 4 | LANXESS | 2 |
| Webster Bank | 4 | TD Bank | 2 |
| Mirador | 3 | Centerwell, Limited Partnership | 2 |
| Griffin Hospital | 3 | Eversource Energy | 2 |
| City Of Bridgeport | 3 | DXC Technology | 2 |
| Yale New Haven Health Premiere Digital Services | 3 | RBC Bearings Incorporated | 2 |
| CBRE | 3 | Principal Financial Group | 2 |
| Humana | 3 | Fairfield University | 2 |
| Motorola Solutions | 2 | Cellular Sales | 2 |
| Apolic | 2 | Avangrid | 2 |
| Apolis | 2 | Steris Corporation | 2 |
| | | | |

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Top Job Titles Posted for Entry – Level and Associate's Technology Roles in Southwest Connecticut (Past 12 Months)

Computer Support Specialist 94 Job Postings (Past 12 Months)

Data / Data Mining Analyst 20 Job Postings (Past 12 Months)

Software Developer / Engineer **16** Job Postings (Past 12 Months)

Data Warehousing Specialist **10** Job Postings (Past 12 Months)

IT Manager 10 Job Postings (Past 12 Months)

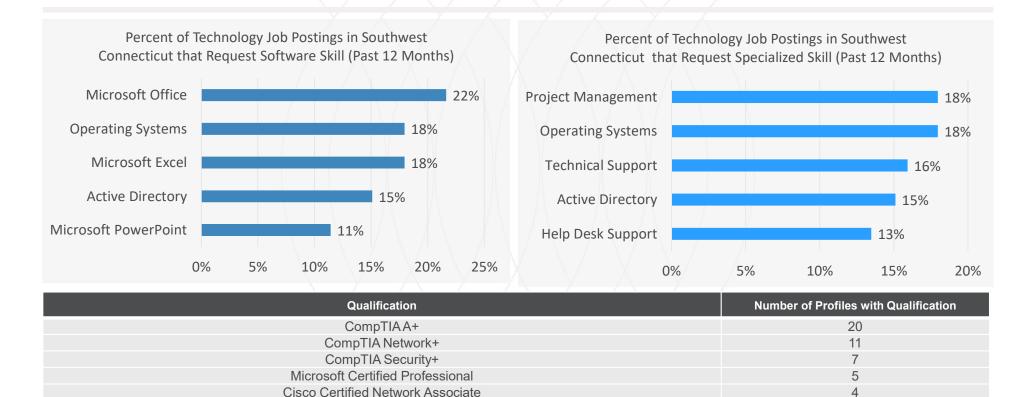
Network Engineer / Architect 10 Job Postings (Past 12 Months) Network / Systems Administrator 8 Job Postings (Past 12 Months)

Software QA Engineer / Tester 8 Job Postings (Past 12 Months)

Cyber / Information Security Engineer / Analyst 7 Job Postings (Past 12 Months)

3/9/2024 *Source: Lightcast

Top Skills and Qualifications Requested for Entry – Level and Associate's Technology Talent in Southwest Connecticut (Past 12 Months)



3/9/2024 *Source: Lightcast

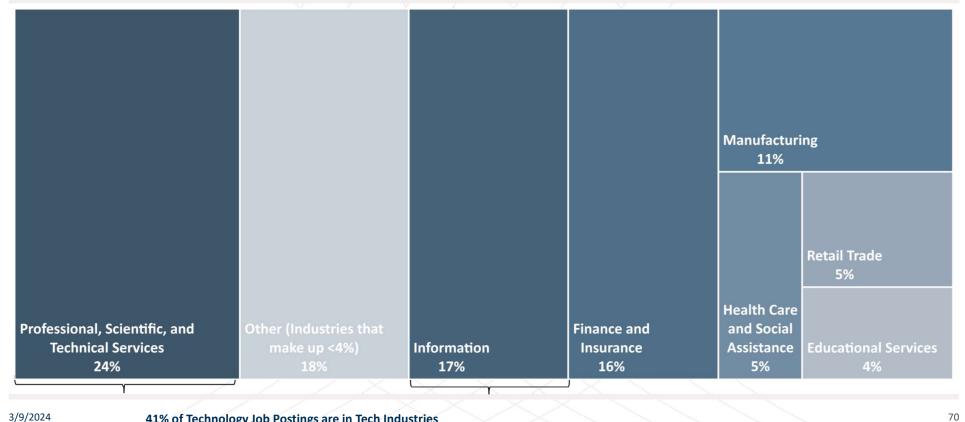
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Hartford HealthCare Southwest Connecticut Entry – Level Tech Talent Demand

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Southwest Connecticut Technology Job Postings by Industry (Entry - Level)



41% of Technology Job Postings are in Tech Industries

Southwest Connecticut Technology Job Postings by Industry (Entry – Level)

Professional, Scientific, and Technical Services

24% or 304 Entry – Level Tech Job Postings

- Top 3 Occupations
 - Software Developer / Engineer
 - 48 Postings
 - Computer Support Specialist
 - 41 Postings
 - Technology Consultant
 - 26 Postings
- Top Companies Hiring
 - Deloitte 63 Postings
 - KPMG 28 Postings
 - Gartner 25 Postings

Information

17% or 221 Entry – Level Tech Job Postings

- Top 3 Occupations
 - Software Developer / Engineer
 - 45 Postings
 - Computer Support Specialist
 - 20 Postings
 - Computer Systems Engineer
 - 18 Postings
- Top Companies Hiring
 - Lumen Technologies 83 Postings
 - Spectrum 40 Postings
 - Frontier Communications 22 Postings

Finance and Insurance

16% or 208 Entry – Level Tech Job Postings

- Top 3 Occupations
 - Software Developer / Engineer
 - 43 Postings
 - Cyber / Information Security Engineer
 - 21 Postings
 - Computer Support Specialist
 - 16 Postings
 - Top Companies Hiring
 - Humana 54 Postings
 - Interactive Brokers 24 Postings
 - Webster Bank 18 Postings

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Southwest Connecticut Technology Job Postings by Industry (Entry – Level)

Manufacturing

11% or 145 Entry – Level Tech Job Postings

- Top 3 Occupations
 - Software Developer / Engineer
 - 33 Postings
 - Computer Support Specialist
 - 23 Postings
 - Computer Systems Engineer
 - 13 Postings
- Top Companies Hiring
 - ASML 42 Postings
 - Hubbell 11 Postings
 - Lockheed Martin 8 Postings

Health Care and Social Assistance

5% or 70 Entry – Level Tech Job Postings

- Top 3 Occupations
 - Computer Support Specialist
 - 31 Postings
 - Software Developer / Engineer
 - 11 Postings
 - Data / Data Mining Analyst
 - 6 Postings
- Top Companies Hiring
 - Community Health Center 32
 Postings
 - Yale New Haven Health 4 Postings
 - City of Bridgeport 3 Postings

Retail Trade

5% or 47 Entry – Level Tech Job Postings

- Top 3 Occupations
 - Computer Support Specialist
 - 26 Postings
 - Software Developer / Engineer
 - 8 Postings
 - Data / Data Mining Analyst
 - 3 Postings
- / Top Companies Hiring
 - Logicalis 24 Postings
 - Red Knight Solutions 6 Postings
 - Richemont 4 Postings

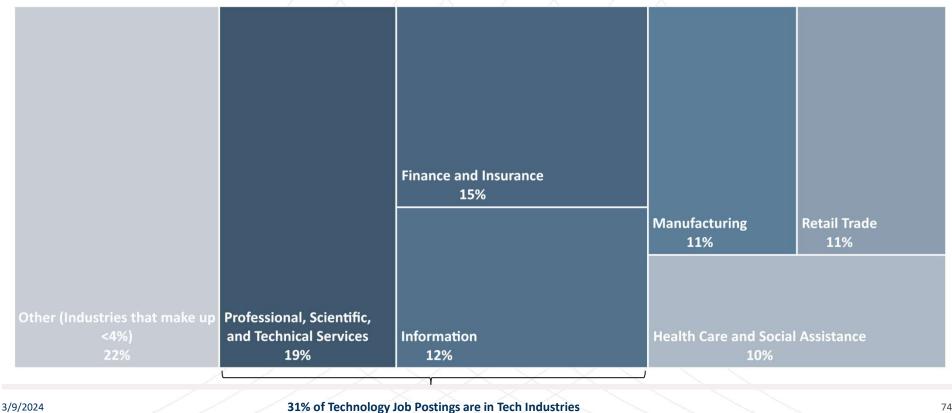
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Hartford HealthCare Southwest Connecticut Entry – Level Tech and Associate's Talent Demand

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Southwest Connecticut Technology Job Postings by Industry (Entry – Level and Associate's)



Southwest Connecticut Technology Job Postings by Industry (Entry – Level and Associate's)

Professional, Scientific, and Technical Services

19% or 37 Entry – Level Tech Job Postings

- Top 3 Occupations
 - Computer Support Specialist
 - 10 Postings
 - Geographer / GIS Specialist
 - 6 Postings
 - Data Warehousing Specialist
 - 4 Postings
- Top Companies Hiring
 - PwC 6 Postings
 - Greenman & Pedersen 6 Postings
 - Save The Children 4 Postings

Finance and Insurance

15% or 29 Entry – Level Tech Job Postings

- Top 3 Occupations
 - Software Developer / Engineer
 - 6 Postings
 - Computer Support Specialist
 - 5 Postings
 - Data / Data Mining Analyst
 - 4 Postings
- Top Companies Hiring
 - Synchrony 13 Postings
 - Webster Bank 4 Postings
 - Humana 3 Postings

Information

12% or 23 Entry – Level Tech Job Postings

- Top 3 Occupations
 - Computer Support Specialist
 - 8 Postings
 - Data / Data Mining Analyst
 - 3 Postings
 - Network Engineer / Architect
 - 1 Postings
- / Top Companies Hiring
 - Lumen Technologies 11 Postings
 - Mirador 3 Postings
 - Pearson Education 2 Postings

Southwest Connecticut Technology Job Postings by Industry (Entry – Level and Associate's)

Manufacturing

11% or 22 Entry – Level Tech Job Postings

- Top 3 Occupations
 - Computer Support Specialist
 - 6 Postings
 - Software Developer / Engineer
 - 5 Postings
 - Data / Data Mining Analyst
 - 2 Postings
- Top Companies Hiring
 - Premiere Digital Services 3 Postings
 - Motorola Solutions 2 Postings
 - Hubbell- 2 Postings

Retail Trade

11% or 22 Entry – Level Tech Job Postings

- Top 3 Occupations
 - Computer Support Specialist
 - 13 Postings
 - IT Manager
 - 2 Postings
 - IT Project Manager
 - 2 Postings
- Top Companies Hiring
 - Logicalis 18 Postings
 - Hot Topic 1 Postings
 - Richemont 1 Postings

Health Care and Social Assistance

10% or 20 Entry – Level Tech Job Postings

- Top 3 Occupations
 - Computer Support Specialist
 - 8 Postings
 - Data / Data Mining Analyst
 - 5 Postings
 - Systems Analyst
 - 2 Postings
- / Top Companies Hiring
 - Community Health Center 7 Postings
 - City of Bridgeport 3 Postings
 - Yale New Haven Health 3 Postings

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Stanley Black & Decker

Southwest Connecticut Entry – Level Professionals with Generalist Technology Skills Demand

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Business Technology Skills Cluster

Business Intelligence, Business Intelligence Software, Financial Analysis, Financial Modeling

1,596

Cumulative Active Unique Entry – Level and Job Postings for Business Technology Generalist Positions (Past 12 Months) in SW Connecticut.

\$83.8K

Median Advertised Salary

Top In – Demand Technology Skills

Finance, Accounting, Financial and Data Analysis, Excel, SQL, Power BI

Financial Analyst

181 Job Postings (Past 12 Months)

Accountant

101 Job Postings (Past 12 Months)

Lumen Technologies 72 M&T Bank 40 Lovesac Furniture Co. 38 Humana 35 The Lovesac Company 33 **Community Health Center** 31 Yale New Haven Health 28 Spectrum 25 **Frontier Communications** 22 KPMG 20

Business / Management Analyst 58 Job Postings (Past 12 Months)

3/9/2024 *Source: Lightcast

Data Technology Skills Cluster

Data Analysis, Data Science, Data Visualization, Statistical Software, Statistics, Data Management, Data Storage, Data Architecture and Admin, Databases

3,227 Cumulative Active Unique Entry – Level and Job Postings for Data Technology Generalist Positions (Past 12 Months) in SW Connecticut. **\$81.8K** Median Advertised Salary

Top In – Demand Technology Skills Data Analysis, Finance, Accounting, Excel, SQL, Dashboard

Financial Analyst 146 Job Postings (Past 12 Months) Software Developer / Engineer 97 Job Postings (Past 12 Months)

Lumen Technologies 112 ASML 112 Yale New Haven Health 76 **Community Health Center** 55 **HEI Hotels & Resorts** 54 Humana 49 **Recovery Network Of Programs** 43 Spectrum 42 **Frontier Communications** 38 KPMG 38

Data / Data Mining Analyst 80 Job Postings (Past 12 Months)

3/9/2024 *Source: Lightcast

Coding and Scripting Languages Skills Cluster

C and C++, Java, JavaScript and jQuery, Other Programming Languages, Scripting, Scripting Languages, Software Development Tools *Excludes 40 selected tech occupations

| | | ASML | 79 |
|--|-----------------------------------|-------------------------------|------------|
| 452 | | KPMG | 23 |
| Cumulative Active Unique Entry – Level and Job | Postings for Coding and Scripting | Lumen Technologies | 19 |
| Generalist Positions (Past 12 Months) in SW Connecticut. | | CDM Smith | 18 |
| | | Shake Shack | 9 |
| \$79.6K | | Harford HealthCare | 9 |
| Median Advertised Salary | | Lex Products | 8 |
| Top In – Demand Technology Skills Python, SQL, Lasers, C, Excel, MATLAB, SAP | | Lockheed Martin | 6 |
| | | NBC | 5 |
| | | Stamford Hospital | 5 |
| Financial Analyst | Optical / Laser Engineer | Business / Managemer | nt Analyst |
| 25 | 18 | 17 | |
| Job Postings (Past 12 Months) | Job Postings (Past 12 Months) | Job Postings (Past 12 Months) | |
| | | | |

3/9/2024 *Source: Lightcast

Human Resources Software Skills Cluster HR Software

336

Cumulative Active Unique Entry – Level and Job Postings for HR Software Generalist Positions (Past 12 Months) in SW Connecticut.

\$69.9K

Median Advertised Salary

Top In – Demand Technology Skills Human Resources Information System (HRIS), Excel, Kronos, Workday, Auditing

HR / Labor Relations Specialist 65 Job Postings (Past 12 Months)

Human Resources Assistant

28 Job Postings (Past 12 Months)

Community Health Center 47 Deloitte 21 ABS Kids 8 Hartford HealthCare 8 ASML 7 Healthplanone 7 Meyer Jabara Hotels 6 Yale New Haven Health 5 **HEI Hotels & Resorts** 5 Lovesac Furniture Co. Δ

Recruiter 25 Job Postings (Past 12 Months)

3/9/2024 *Source: Lightcast

Technical Support and Services Skills Cluster

Technical Support and Services *Excludes 40 selected tech occupations

359

Cumulative Active Unique Entry – Level and Job Postings for Tech Support Generalist Positions (Past 12 Months) in SW Connecticut.

\$72.6K

Median Advertised Salary

Top In – Demand Technology Skills

Technical Support, Project Management, Help Desk Support, Excel

| Community Health Center | 22 |
|------------------------------------|----|
| Nuvance Health | 7 |
| Philips | 6 |
| TRMEDX | 6 |
| CDM Smith | 6 |
| KPMG | 6 |
| Alliance For Community Empowerment | 6 |
| NBC | 5 |
| Lumen Technologies | 5 |
| Abcd Corporation Ltd | 5 |
| | |

Business / Management Analyst 13 Job Postings (Past 12 Months)

Computer Support Specialist

13 Job Postings (Past 12 Months)

Sales Representative **11** Job Postings (Past 12 Months)

3/9/2024 *Source: Lightcast

Southwest Connecticut Occupations Deep Dive

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Computer Support Specialist

Entry – Level Tech Job Postings



279

Cumulative Active Unique **Entry – Level** Job Postings for Computer Support Specialist (Past 12 Months) in SW Connecticut.

\$55.6K Median Advertised Salary

Entry – Level and Associate's Tech Job Postings



94

Cumulative Active Unique Entry – Level and Associate's Job Postings for Computer Support Specialist (Past 12 Months) in SW Connecticut.

-Median Advertised Salary

In – Demand Skill S Technical Support Help Desk Support Active Directory Operating Systems Microsoft Office 365 Windows 10 Service Now Windows 7 Excel

Apple IOS

Skill Growth Relative to Market

Rapidly Growing

Rapidly Growing

Lagging

Rapidly Growing

Rapidly Growing

Rapidly Growing

Rapidly Growing

Rapidly Growing

Growing

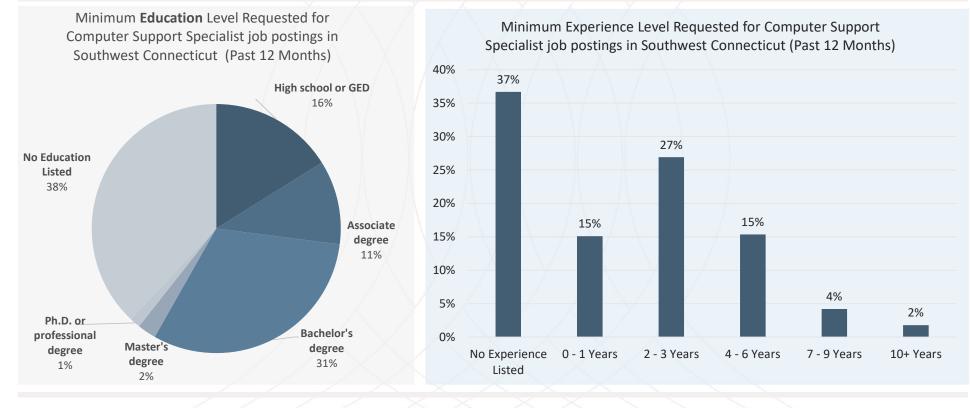
Growing

3/9/2024

\$55K

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Computer Support Specialist Education and Experiment Requirements in SW CT

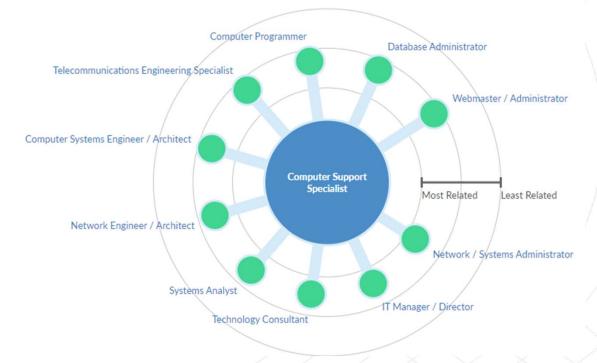


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Computer Support Specialist: Career Pathway

Below are the top listed next – step jobs for Computer Support Specialist

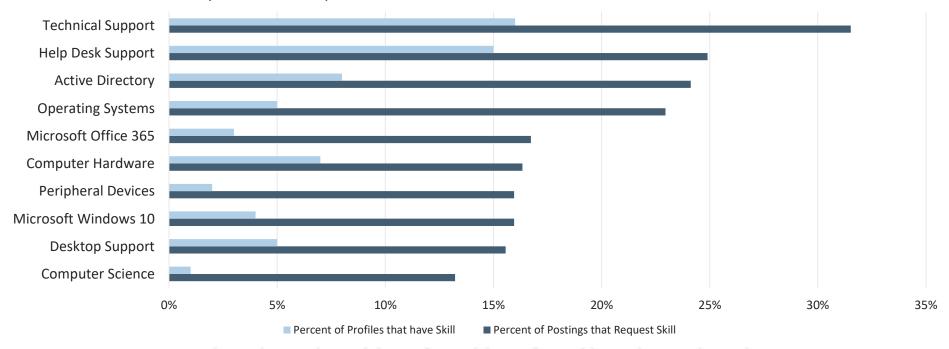


Target Advancement Occupation Network / Systems Computer Support Administrator Specialist \$55.6K \$84.9K Median Advertised Salary Median Advertised Salary Most Needed Transitional Skills Linux System Administration Scripting Network Administration Ansible Automation Unix

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Computer Support Specialist: Skills Gap Assessment



Top In – Demand Specialized Skills and Percent of Tech Professionals in CT that have Skill

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Software Developer / Engineer

Entry – Level Tech Job Postings



265

Cumulative Active Unique **Entry – Level** Job Postings for Software Developer (Past 12 Months) in SW Connecticut.

\$124.3K Median Advertised Salary

Entry – Level and Associate's Tech Job Postings



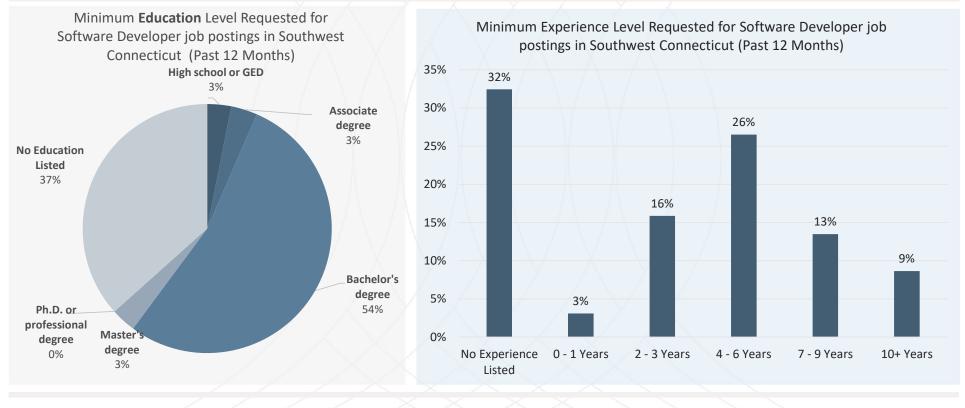
16

Cumulative Active Unique **Entry – Level and Associate's** Job Postings for Software Developer (Past 12 Months) in SW Connecticut.

| In – Demand Skill | Skill Growth Relative to Market |
|----------------------|---------------------------------|
| Computer Science | Rapidly Growing |
| Software Engineering | Rapidly Growing |
| Python | Rapidly Growing |
| Software Developer | Rapidly Growing |
| SQL | Stable |
| JavaScript | Growing |
| ΑΡΙ | Growing |
| Java | Growing |
| C++ | Growing |
| Linux | Stable |

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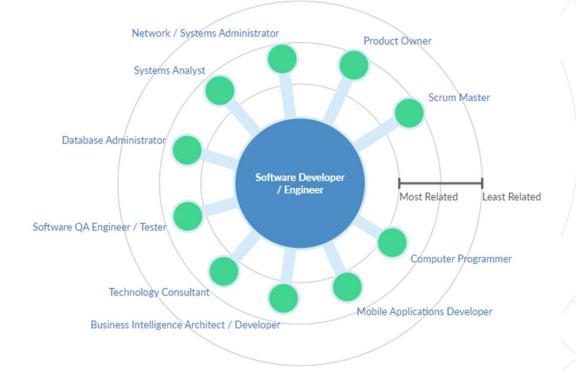
Software Developer / Engineer Education and Experiment Requirements in SW CT



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Software Developer: Career Pathway

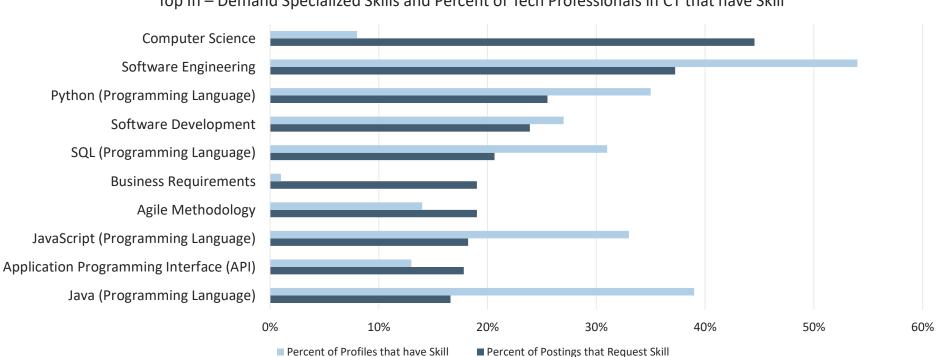
Below are the top listed feeder jobs for Software Developer



Target Advancement Occupation Software Software QA **Developer Engineer / Tester** \$90K \$124K Median Advertised Salary Median Advertised Salary Most Needed Transitional Skills Software Engineering **Full Stack Development** Amazon Web Services React.js **Kubernetes** Angular **Microsoft Azure Microservices**

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Software Developer: Skills Gap Assessment



Top In – Demand Specialized Skills and Percent of Tech Professionals in CT that have Skill

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Data / Data Mining Analyst, Statistician, Data Engineer, Data Warehousing Specialist, Database Administrator and Architect

In

Entry – Level Tech Job Postings

<u>.du</u>

Cumulative Active Unique **Entry – Level** Job Postings for Data Roles (Past 12 Months) in SW Connecticut.

\$89.9K Median Advertised Salary

215

36

Entry – Level and Associate's Tech Job Postings

.ılı

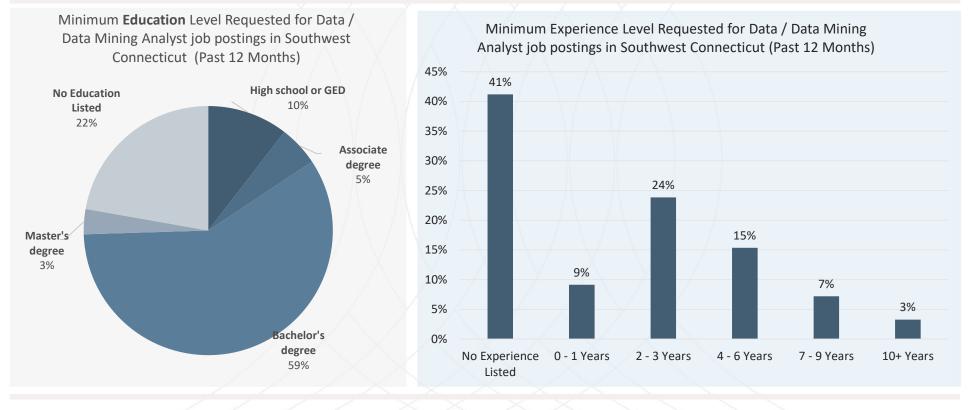
Cumulative Active Unique **Entry – Level and Associate's** Job Postings for Data Roles (Past 12 Months) in SW Connecticut.

\$58.1K Median Advertised Salary

| – Demand Skill | Skill Growth Relative to Market |
|------------------|---------------------------------|
| Data Analysis | Rapidly Growing |
| SQL | Stable |
| Computer Science | Rapidly Growing |
| Python | Rapidly Growing |
| Data Quality | Rapidly Growing |
| Excel | Growing |
| Power Bl | Rapidly Growing |
| Dashboard | Rapidly Growing |
| Tableau | Rapidly Growing |
| R | Rapidly Growing |

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Data / Data Mining Analyst Education and Experiment Requirements in SW CT



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Data / Data Mining Analyst: Career Pathway

Actuary Biostatistician Technology Consultant Computer Scientist Database Administrator Data / Data Mining Analyst Most Related Least Related Data Engineer Analytics Manager Data Scientist Database Architect Business Intelligence Architect / Developer

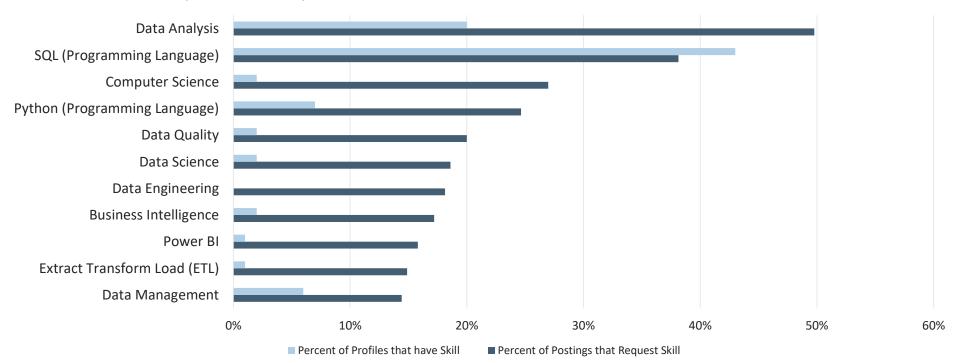
Below are the top listed next - steps jobs for Data / Data Mining **Target Advancement Occupation** Database Data / Data Mining **Architect** Analyst \$96K \$131K Median Advertised Salary Median Advertised Salary Most Needed Transitional Skills Data Architecture Amazon Web Services Data Strategy Microsoft Azure Scalability Data Engineering **Big Data Apache Spark**

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Analyst

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Data Scientist: Skills Gap Assessment



Top In – Demand Specialized Skills and Percent of Tech Professionals in CT that have Skill

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Business Management Analyst and Business Intelligence Analyst

Entry – Level Tech Job Postings



265

Cumulative Active Unique Entry – Level Job Postings for Business Analyst (Past 12 Months) in SW Connecticut.

\$100.6K

Median Advertised Salary

Entry – Level and Associate's Tech Job Postings



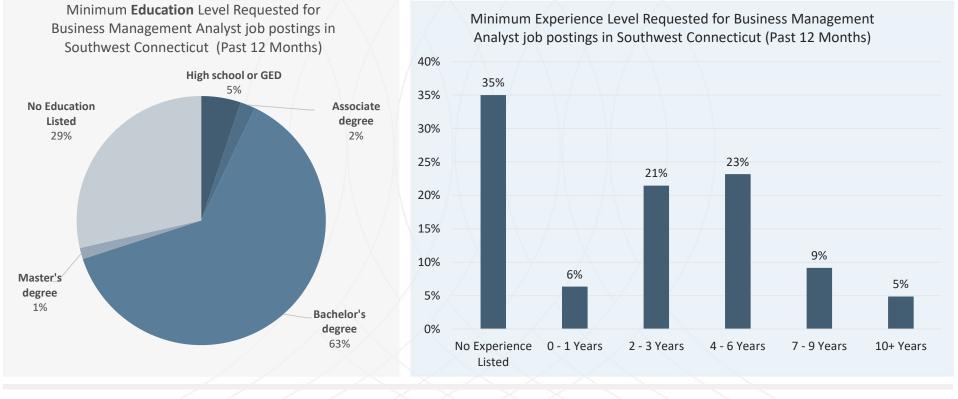
18

Cumulative Active Unique **Entry – Level and Associate's** Job Postings for Business Analyst (Past 12 Months) in SW Connecticut.

| In – Demand Skill | Skill Growth Relative to Marke |
|--------------------|--------------------------------|
| Project Management | Growing |
| Finance | Rapidly Growing |
| Business Process | Rapidly Growing |
| Data Analysis | Rapidly Growing |
| SQL | Stable |
| Excel | Growing |
| PowerPoint | Rapidly Growing |
| Tableau | Rapidly Growing |
| SAP Applications | Rapidly Growing |
| Power BI | Rapidly Growing |

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Business Management Analyst Education and Experiment Requirements in SW CT



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Business Intelligence Analyst: Career Pathway

Below are the top listed feeder jobs for Business Intelligence Analyst



Target Advancement Occupation

Data Warehousing Specialist

Analyst \$125K

Intelligence

Business

\$70K Median Advertised Salary

Ş125K Median Advertised Salary

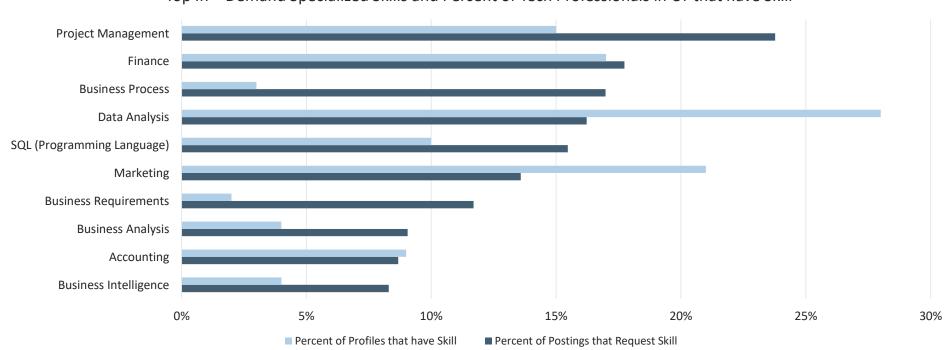
Most Needed Transitional Skills

SAP Applications Business Process Business Requirements Enterprise Resource Planning Business Intelligence Finance Supply Chain Accounting

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Business Management Analyst: Skills Gap Assessment



Top In – Demand Specialized Skills and Percent of Tech Professionals in CT that have Skill

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Cyber / Information Security Engineer / Analyst, Systems Analyst, Network / Systems Administrator

Entry – Level Tech Job Postings



155

Cumulative Active Unique **Entry – Level** Job Postings for Cyber Roles (Past 12 Months) in SW Connecticut.

\$92.4K

Median Advertised Salary

Entry – Level and Associate's Tech Job Postings



23

Cumulative Active Unique Entry – Level and Associate's Job Postings for Cyber Roles (Past 12 Months) in SW Connecticut.

In – Demand Skill

Computer Science

Auditing

Project Management

Business Process

Microsoft Azure

Firewall

Operating Systems

AWS

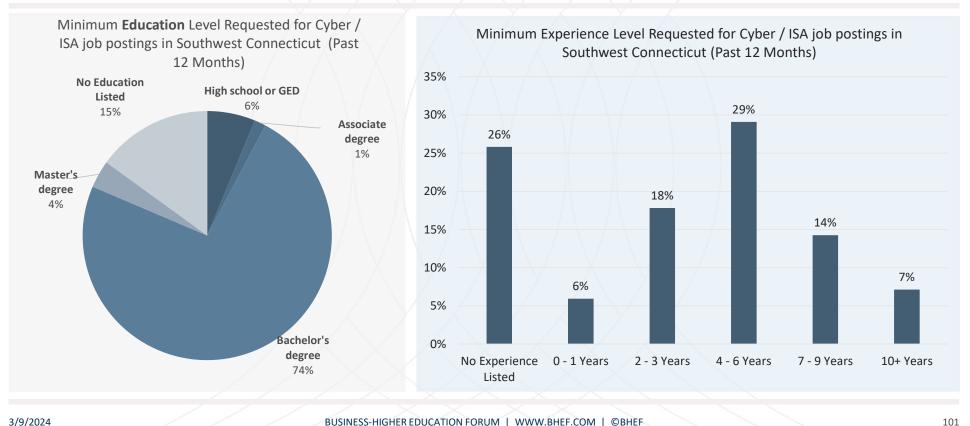
ServiceNow

Unix

Skill Growth Relative to Market Rapidly Growing Rapidly Growing Growing Rapidly Growing Rapidly Growing Rapidly Growing Rapidly Growing Rapidly Growing Rapidly Growing Growing

3/9/2024

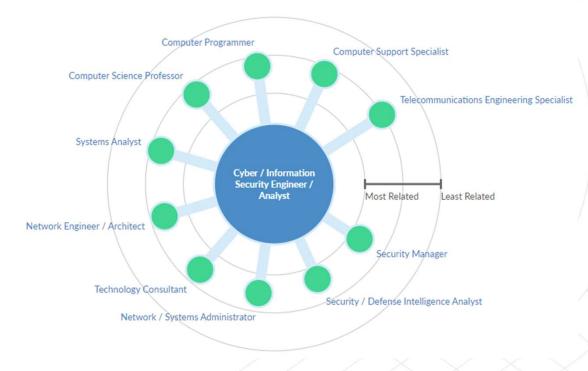
Cyber / Information Security Engineer / Analyst Education and Experiment Requirements in SW CT



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Cyber / Information Security Engineer / Analyst: Career Pathway

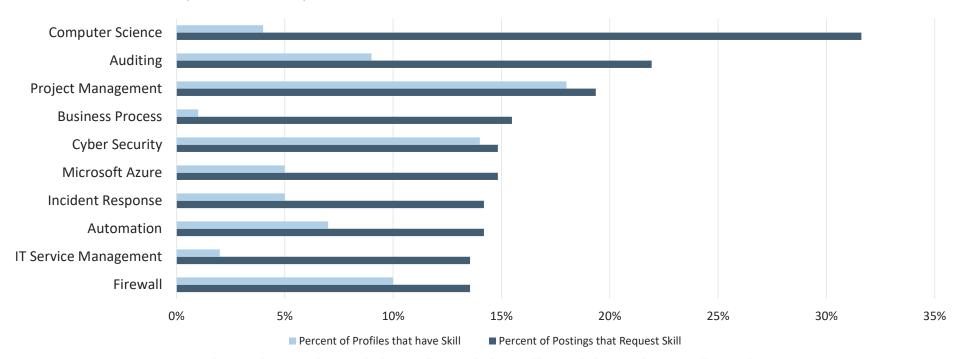
Below are the top listed feeder jobs for Cyber / ISE / Analyst



Target Advancement Occupation Network / Systems Cyber / ISE / **Administrator** Analyst \$98K \$119K Median Advertised Salary Median Advertised Salary Most Needed Transitional Skills **Cyber Security** Vulnerability **Incident Response Risk Analysis** Cyber Threat Intelligence **Risk Management Security Controls Penetration Testing**

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Cyber / Information Security Engineer / Analyst: Skills Gap Assessment



Top In – Demand Specialized Skills and Percent of Tech Professionals in CT that have Skill

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Skills Demand for EPIC EMR and EPIC EMR Certification in Southwest CT over the Past 12 Months

34

Cumulative Active Unique Job Postings for **Technology Occupations** that request EPIC EMR (Past 12 Months) in SW CT

15

Cumulative Active Unique Entry – Level Job Postings for **Technology Occupations** that request EPIC EMR (Past 12 Months) in SW CT

Systems Analyst, Data Engineer, Technology Consultant, Software QA Engineer / Tester

CTG, Yale New Haven Health, Robert Half, Computer Task Group

1,282

Cumulative Active Unique Job Postings that request EPIC EMR (Past 12 Months) in Southwest CT

732

Cumulative Active Unique Entry – Level Job Postings that request EPIC EMR (Past 12 Months) in Southwest CT

Medical Assistant, Nursing Assistant, Registered Nurse, Medical Secretary, Speech Language Pathologist

Yale New Haven Health, Harford Healthcare, Epic Staffing, Actalent, Trusted Health, Robert Half

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Southwest Connecticut Skills Deep Dive

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Southwest Connecticut Top In-Demand Occupations by Skill (Entry – Level)

SQL

Top Occupations Requesting Skill Software Developer / Engineer Data / Data Mining Analyst Data Engineer

Python

Top Occupations Requesting Skill Software Developer / Engineer Data / Data Mining Analyst Data Scientist Microsoft Excel Top Occupations Requesting Skill Computer Support Specialist Technology Consultant Data / Data Mining Analyst

JavaScript Top Occupations Requesting Skill Software Developer / Engineer Web Developer UI / UX Designer / Developer **Operating Systems**

Top Occupations Requesting Skill Computer Support Specialist Software Developer / Engineer Cyber / ISE / Analyst

Active Directory Top Occupations Requesting Skill Computer Support Specialist Network Engineer / Architect IT Manager / Director

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Southwest Connecticut Top In-Demand Occupations by Skill (Entry – Level)

Amazon Web Services

Top Occupations Requesting Skill Software Developer / Engineer Cyber / ISE / Analyst Computer Systems Engineer

Microsoft Azure Top Occupations Requesting Skill Software Developer / Engineer Computer Systems Engineer Computer Support Specialist API

Top Occupations Requesting Skill Software Developer / Engineer Cyber / ISE / Analyst Business Intelligence Architect

Java Top Occupations Requesting Skill Software Developer / Engineer Cyber / ISE / Analyst Web Developer

Linux

Top Occupations Requesting Skill Software Developer / Engineer Cyber / ISE / Analyst Web Developer

Dashboard Top Occupations Requesting Skill Data / Data Mining Analyst Business Intelligence Architect Data Engineer

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Southwest Connecticut Top In-Demand Occupations by Skill (Entry – Level)

Jira

Top Occupations Requesting Skill Software Developer / Engineer Computer Support Specialist Data / Data Mining Analyst

Computer Science Top Occupations Requesting Skill Software Developer / Engineer Computer Support Specialist Data / Data Mining Analyst Agile

Top Occupations Requesting Skill Software Developer / Engineer Computer Support Specialist UI / UX Design / Developer

Project Management Top Occupations Requesting Skill Computer Support Specialist Software Developer / Engineer IT Project Management

Data Analysis

Top Occupations Requesting Skill Data / Data Mining Analyst Data Scientist Data Engineer

Automation Top Occupations Requesting Skill Software Developer / Engineer Cyber / ISE / Analyst Network Engineer / Architect

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Southwest Connecticut Top In-Demand Occupations by Skill (Entry – Level)

Scrum

Top Occupations Requesting Skill Software Developer / Engineer Product Owner Business Intelligence Architect

Workflow Management Top Occupations Requesting Skill Software Developer / Engineer Systems Analyst Computer Support Specialist Help Desk Support Top Occupations Requesting Skill Computer Support Specialist Systems Analyst Network Engineer / Architect

Software Development Top Occupations Requesting Skill Software Developer / Engineer Data Engineer Systems Analyst **Software Engineering**

Top Occupations Requesting Skill Software Developer / Engineer Business Intelligence Architect Computer Systems Engineer

CompTIA+, Network +, Security + Top Occupations Requesting Skill Computer Support Specialist Cyber / ISE / Analyst IT Manager

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Appendix

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Connecticut

Entry – Level and Associate's Degree Only Tech Talent Demand

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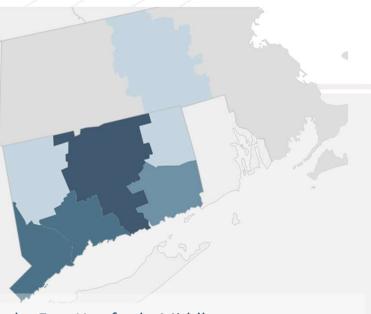
Connecticut Technology Job Postings over Past 12 Months (Entry – Level and Associate's)

1,271

Cumulative Active Unique Entry – Level and Associate's Job Postings for **Technology Occupations** for **any Industry** (Past 12 Months) in CT.

75%

Of Entry-Level and Associate's Technology Job Postings in CT are **outside of Technology Industry**.



Hartford – East Hartford - Middletown 590 Job Postings

Bridgeport – Stamford - Norwalk 269 Job Postings

New Haven – Milford 228 Job Postings

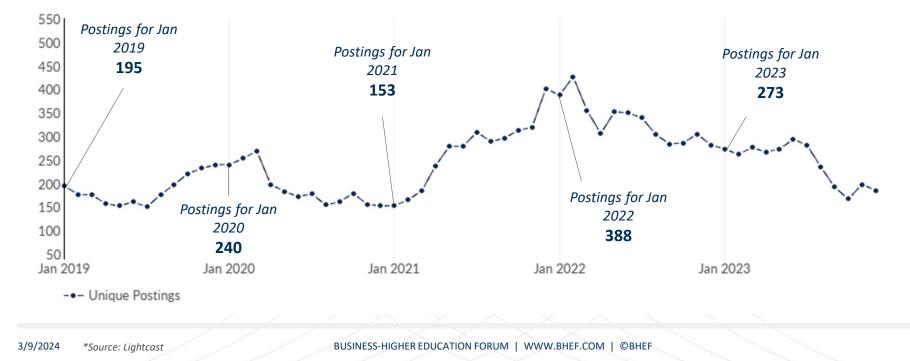
3/9/2024 *Source: Lightcast

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*The darker the shading indicates a denser number of job of job postings 112

Connecticut Technology Job Postings Over Past 5 Years (Entry – Level and Associate's)

Entry – Level and Associate's Job Postings Trend for Technology Occupations in any Industry in CT Past 5 Years



Top Companies Hiring for Entry – Level and Associate's Technology Talent in Connecticut

| Accenture | 49 |
|-------------------------|----|
| Cigna | 37 |
| Yale New Haven Health | 33 |
| Travelers | 31 |
| The Cigna Group | 25 |
| General Dynamics | 24 |
| UnitedHealth Group | 22 |
| Logicalis | 18 |
| Wheeler Clinic | 14 |
| Synchrony | 13 |
| PricewaterhouseCoopers | 13 |
| Community Health Center | 13 |
| Prime Therapeutics | 13 |
| Lumen Technologies | 12 |
| Quinnipiac University | 11 |
| Eversource Energy | 10 |
| Ultra Agency | 10 |
| | |

| | Unisys | 9 |
|---|--------------------------------|------------------|
| | CVS Health | 9 |
| | Yale University | 9 |
| | Webster Bank | 8 |
| | CBRE | 8 |
| | Guidehouse | 8 |
| | Marriott International | 7 |
| | TRUMPF | 7 |
| | Hartford HealthCare | 7 |
| | Elevance Health | 7 |
| | Capital One | 7 |
| | GKN | 7 |
| | Mazak Corporation | 7 |
| | Pearson Education | 6 |
| | Bristol Hospital | 6 |
| N | orwalk Community Coll | ege 6 |
| | Manchester Communit College | [.] Y 6 |
| | | |

| Greenman & Pedersen | 6 | | |
|---|---|--|--|
| Capgemini | 6 | | |
| Connecticut Children's Medical Center | 6 | | |
| Planet Fitness | 6 | | |
| Connecticut State Colleges Universities | 6 | | |
| United States Department of the 6 Treasury | | | |
| Connecticut Judicial Branch | 6 | | |
| Ovation Workplace Services | 5 | | |
| Nfp | 5 | | |
| CDW | 5 | | |
| Dci Resources | 5 | | |
| Leidos | 5 | | |
| American Cruise Lines | 5 | | |
| Bell Techlogix | 5 | | |
| Blackhawk Industrial | 5 | | |
| Echn | 5 | | |
| | | | |

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Top Job Titles Posted for Entry - Level and Associate's Technology Roles in Connecticut (Past 12 Months)

Computer Support Specialist **431** Job Postings (Past 12 Months)

Software Developer / Engineer 103 Job Postings (Past 12 Months)

Systems Analyst 79 Job Postings (Past 12 Months) IT Manager 64 Job Postings (Past 12 Months)

Cyber / Information Security Engineer / Analyst **50** Job Postings (Past 12 Months)

Technology Consultant 49 Job Postings (Past 12 Months) Data / Data Mining Analyst 48 Job Postings (Past 12 Months)

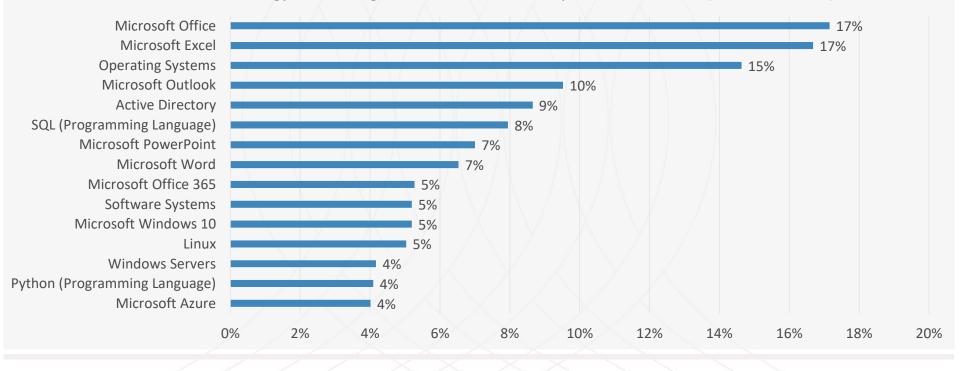
Network Engineer / Architect 48 Job Postings (Past 12 Months)

Network / Systems Admin. 48 Job Postings (Past 12 Months)

3/9/2024 *Source: Lightcast

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Top Software Skills Requested for Entry – Level and Associate's Technology Talent in Connecticut (Past 12 Months)

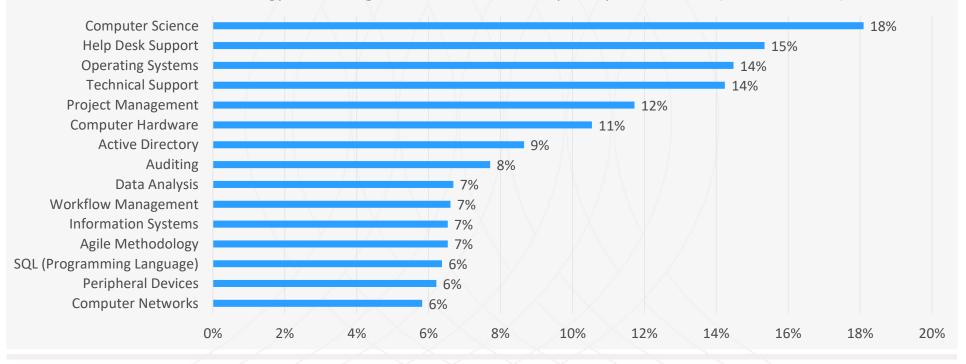


Percent of Technology Job Postings in Connecticut that Request Software Skill (Past 12 Months)

3/9/2024 *Source: Lightcast

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Top Specialized Skills Requested for Entry - Level and Associate's Technology Talent in Connecticut (Past 12 Months)

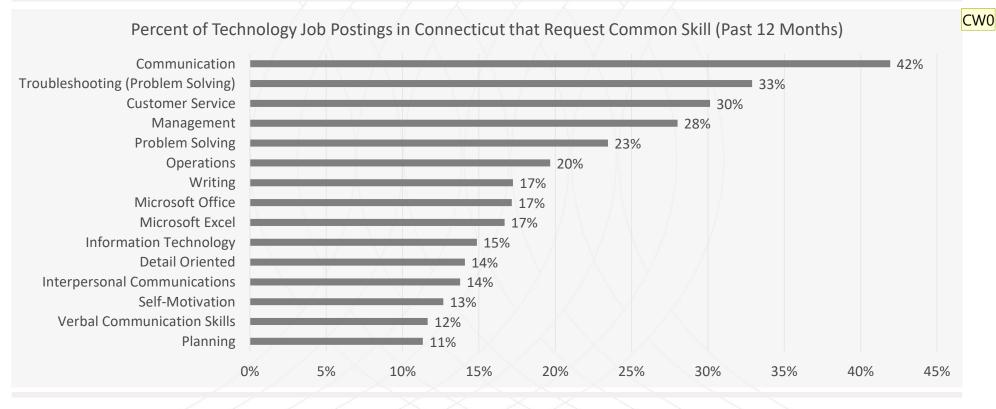


Percent of Technology Job Postings in Connecticut that Request Specialized Skill (Past 12 Months)

3/9/2024 *Source: Lightcast

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Top Common Skills Requested for Entry – Level and Associate's Technology Talent in Connecticut (Past 12 Months)



3/9/2024 *Source: Lightcast

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CW0 Update title of chart to say Common skill Candace Williams, 2024-01-29T14:37:21.628

Top Qualifications Requested for Entry - Level and Associate's Technology Talent in Connecticut (Past 12 Months)

| Qualification | Number of Postings Requesting Qualification | | |
|---|--|--|--|
| CompTIA A+ | 105 | | |
| CompTIA Network+ | 56 | | |
| Microsoft Certified Professional | 37 | | |
| CompTIA Security+ | 34 | | |
| Cardiopulmonary Resuscitation (CPR) Certification | 26 | | |
| Secret Clearance | 22 | | |
| Security Clearance | 21 | | |
| Registered Nurse (RN) | 17 | | |
| First Aid Certification | 16 | | |
| Cisco Certified Network Associate | 12 | | |
| Epic EMR Certification | 11 | | |
| CompTIA Certification | 11 | | |
| Microsoft Certified Systems Engineer | 11 | | |
| Certified Information Systems Security Professional | 9 | | |
| Advanced Cardiovascular Life Support (ACLS) Certification | 7 | | |

3/9/2024 *Source: Lightcast



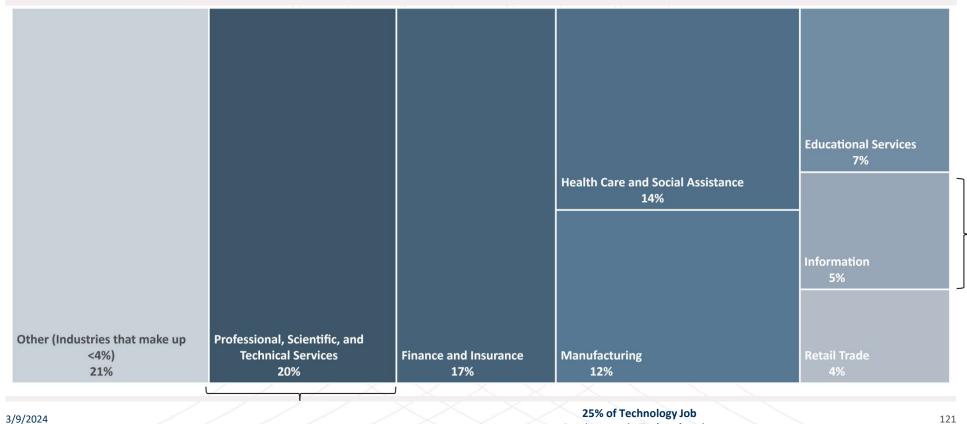
Connecticut

Entry – Level and Associate's Degree Only Tech Talent Demand

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Connecticut Technology Job Postings by Industry (Entry – Level and Associate's)



Postings are in Tech Industries

Connecticut Technology Job Postings by Industry (Entry – Level and Associate's)

Professional, Scientific, and Technical Services

20% or 206 Entry – Level Tech Job Postings

- Top 3 Occupations
 - Computer Support Specialist
 - 80 Postings
 - Software Developer / Engineer
 - 22 Postings
 - Systems Analyst
 - 11 Postings
- Top Companies Hiring
 - Accenture 49 Postings
 - PwC 13 Postings
 - Unisys 9 Postings

Finance and Insurance

17% or 172 Entry – Level Tech Job Postings

- Top 3 Occupations
 - Computer Support Specialist
 - 37 Postings
 - Systems Analyst
 - 26 Postings
 - Cyber / Information Security Engineer
 - 15 Postings
- Top Companies Hiring
 - Cigna 37 Postings
 - Travelers 21 Postings
 - UnitedHealth Group 22 Postings

Health Care and Social Assistance

14% or 143 Entry – Level Tech Job Postings

- Top 3 Occupations
 - Computer Support Specialist
 - 51 Postings
 - Database Architect
 - 15 Postings
 - Systems Analyst
 - 11 Postings
- / Top Companies Hiring
 - Yale New Haven Health 33 Postings
 - Wheeler Clinic -14 Postings
 - Community Health Center 13
 Postings

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Connecticut Technology Job Postings by Industry (Entry – Level and Associate's)

Manufacturing

12% or 125 Entry – Level Tech Job Postings

- Top 3 Occupations
 - Computer Support Specialist
 - 30 Postings
 - Software Developer / Engineer
 - 22 Postings
 - Software QA Engineer / Tester
 - 10 Postings
- Top Companies Hiring
 - General Dynamics 24 Postings
 - GKN 7 Postings
 - Mazak Corporation 7 Postings

Educational Services

7% or 70 Entry – Level Tech Job Postings

- Top 3 Occupations
 - Computer Support Specialist
 - 58 Postings
 - Network / Systems Admin.
 - 16 Postings
 - **GIS Specialist**
 - 7 Postings
- Top Companies Hiring
 - Quinnipiac University 11
 Postings
 - Yale University 9 Postings
 - Norwalk Community College 6 Postings

Information

5% or 47 Entry – Level Tech Job Postings

- Top 3 Occupations
 - Network Engineer / Architect
 - 9 Postings
 - Computer Support Specialist
 - 9 Postings
 - Data / Data Mining Analyst
 - 4 Postings
- /Top Companies Hiring
 - Lumen Technologies 12 Postings
 - Pearson Education 6 Postings
 - Mirador 3 Postings

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Connecticut Technology Professionals (Graduation Year 2013 - 2023)

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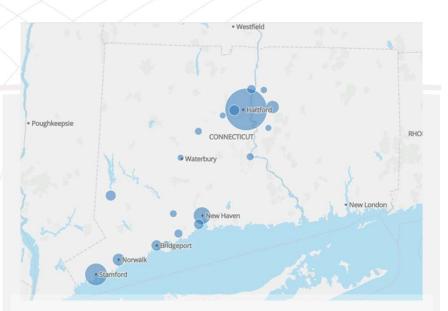
Connecticut Technology Professionals (Graduation Year 2013 - 2023)

20,290

Technology Professionals in CT (Graduation Year 2013 - 2023).

56%

Of Technology Professionals in CT (Graduation Year 2013 - 2023) work outside of the technology industry.



Hartford 3,649 Professionals

New Haven 1,255 Professionals

Stamford 1,058 Professionals

3/9/2024 *Source: Lightcast

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*The larger the bubble the greater density of technology professionals. 125

Top Companies where Technology Professionals work in CT (Graduation Year 2013 - 2023)

| Company | Profiles | Percent of Profiles | Company | Profiles | Percent of Profiles | Company | Profiles | Percent of Profiles |
|---------------------------|----------|------------------------|---------------------------|----------|------------------------|-------------------------|----------|------------------------|
| Travelers | 587 | 2.89% | Lockheed Martin | 110 | 0.54% | Yale School Of Medicine | 55 | 0.27% |
| The Hartford | 363 | 1.79% | Sikorsky | 103 | 0.51% | Prudential Financial | 53 | 0.26% |
| General Dynamics | 360 | 1.77% | IBM | 100 | 0.49% | | 50 | 0.000/ |
| Pratt & Whitney | 358 | 1.76% | | 100 | 0.4970 | Larsen & Toubro | 53 | 0.26% |
| Cigna | 352 | 1.73% | UnitedHealth Group | 100 | 0.49% | Verizon Communications | 47 | 0.23% |
| Raytheon Technologies | 258 | 1.27% | CVS Health | 95 | 0.47% | | 45 | |
| Infosys | 190 | 0.94% | State Of Connecticut | 88 | 0.43% | Sonalysts | 45 | 0.22% |
| | 400 | 0.000/ | | | | Spectrum | 44 | 0.22% |
| Aetna | 180 | 0.89% | Factset | 88 | 0.43% | Evernorth | 41 | 0.20% |
| Yale University Careers | 158 | 0.78% | Tata Consultancy Services | 79 | 0.39% | Gartner | 41 | 0.20% |
| Hartford HealthCare | 143 | 0.70% | Google | 67 | 0.33% | Espn | 40 | 0.20% |
| | | | Cognizant Technology | 65 | 0.32% | | | |
| Yale New Haven Health | 137 | 0.68% | Solutions | | | DXC Technology | 40 | 0.20% |
| Amazon | 126 | 0.62% | Medtronic | 65 | 0.32% | Disney | 40 | 0.20% |
| | | | Apple | 65 | 0.32% | Uconn Health | 37 | 0.18% |
| University of Connecticut | 125 | 0.62% | Pfizer | 63 | 0.31% | Deloitte | 37 | 0.18% |
| Accenture | 119 | 0.59% | Ernst & Young | 63 | 0.31% | Microsoft | 37 | 0.18% |
| Eversource Energy | 118 | 0.58% | MassMutual | 59 | 0.29% | Boehringer Ingelheim | 36 | 0.18% |
| Сосс | 118 | 0.58% | Optum | 57 | 0.28% | International | | |
| ASML | 112 | 0.55% | Voya Financial | 57 | 0.28% | Avangrid | 35 | 0.17% |

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Top Job Titles of Technology Professionals in CT (Graduation Year 2013 - 2023)

Software Engineers 1,663 Professionals

Software Developers 378 Professionals

Data Engineers **357** Professionals

Data Scientists 278 Professionals

Systems Engineers 246 Professionals

IT Specialists **211** Professionals Actuarial Analysts 208 Professionals

Systems Administrators **149** Professionals

Web Developers 130 Professionals

3/9/2024 *Source: Lightcast



Build better skills for better performance.*

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