

Intelligent Investment

Tech-30 2023

REPORT

Measuring the tech industry's impact on U.S. & Canadian office markets

CBRE RESEARCH
OCTOBER 2023

CBRE



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01

Key takeaways

How is the tech industry performing and where is it headed?

<p>1.5M</p> <p>jobs created since 2013</p>	<p>547k</p> <p>jobs created since the pandemic's onset</p>
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Tech industry job growth has slowed but not stopped. It remains well above the national average and fewer layoffs may be a precursor to renewed growth.

Continued venture capital investment and the Nasdaq's rebound in 2023—along with the rapid advances in AI and other innovations—could potentially catalyze the next tech growth cycle and produce significant economic value, employment and office leasing demand.

Which are the top markets for high-tech job growth?

Vancouver	+26%
Austin	+26%
Denver	+24%

Vancouver and Austin led North America for high-tech job growth over the past two years (2021 and 2022), followed closely by Denver. Eight other U.S. markets surpassed the 10.1% national growth rate, including Salt Lake City, Charlotte and New York. New York also created the most jobs (+28,166).

Which are the top momentum markets with faster high-tech job growth?

Nashville	+11%
Salt Lake City	+10%
San Francisco	+8%
Phoenix	+8%

Eighteen markets had faster high-tech job growth in the past two years than in the preceding two years, led by Nashville, Salt Lake City, San Francisco and Phoenix. Several major U.S. and Canadian markets did not gain momentum, even though three (Vancouver, Charlotte and Seattle) had double-digit high-tech job growth rates.

How are tech office markets performing?

Leasing activity slowed, sublease space rose and AI emerged.

Overall U.S. leasing activity slowed over the past four quarters, with Q2 2023 reaching the lowest level since the pandemic. Tech industry leasing activity also slowed but has started to rebound, rising from 9% (3.9 million sq. ft.) of overall leasing in Q4 2022 to 17% (7.3 million sq. ft.) in Q3 2023. Lower overall leasing contributed to increased sublease space across the Tech-30, accounting for 4.8% of available space in Q2 2023. There are several promising indicators that AI will become a catalyst for the next tech growth cycle.

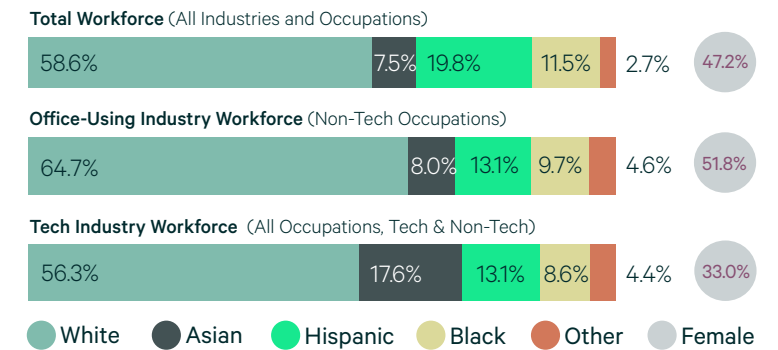
Which tech markets are most resilient and positioned for renewed growth?

Vancouver
Boston
Salt Lake City
New York
Charlotte

These markets have the best combination of future tech demand drivers and office market fundamentals.

How diverse is the tech industry?

FIGURE 1: U.S. Workforce by Race/Ethnicity & Sex for Selected Industries, 2021



U.S. tech industry diversity by race, ethnicity and sex has improved over the past five years but remains mostly Male (67%), White (56%) and Asian (18%). Females (33%) are underrepresented compared with non-tech office-using industry employment (52%). Hispanics, Blacks and Other races see roughly equal representation within and outside of the U.S. tech industry.

Note: Office-using industries include information, financial activities and professional & business services (excluding tech occupations within these categories).
Source: U.S. Census, IPUMS and CBRE Research, May 2023.



Tech industry job growth has slowed but not stopped. It remains well above the national average and fewer layoffs may be a precursor to renewed growth.

02

How is the tech industry
performing and where
is it headed?

Mass layoffs across major technology companies in 2022 slowed tech industry employment growth,

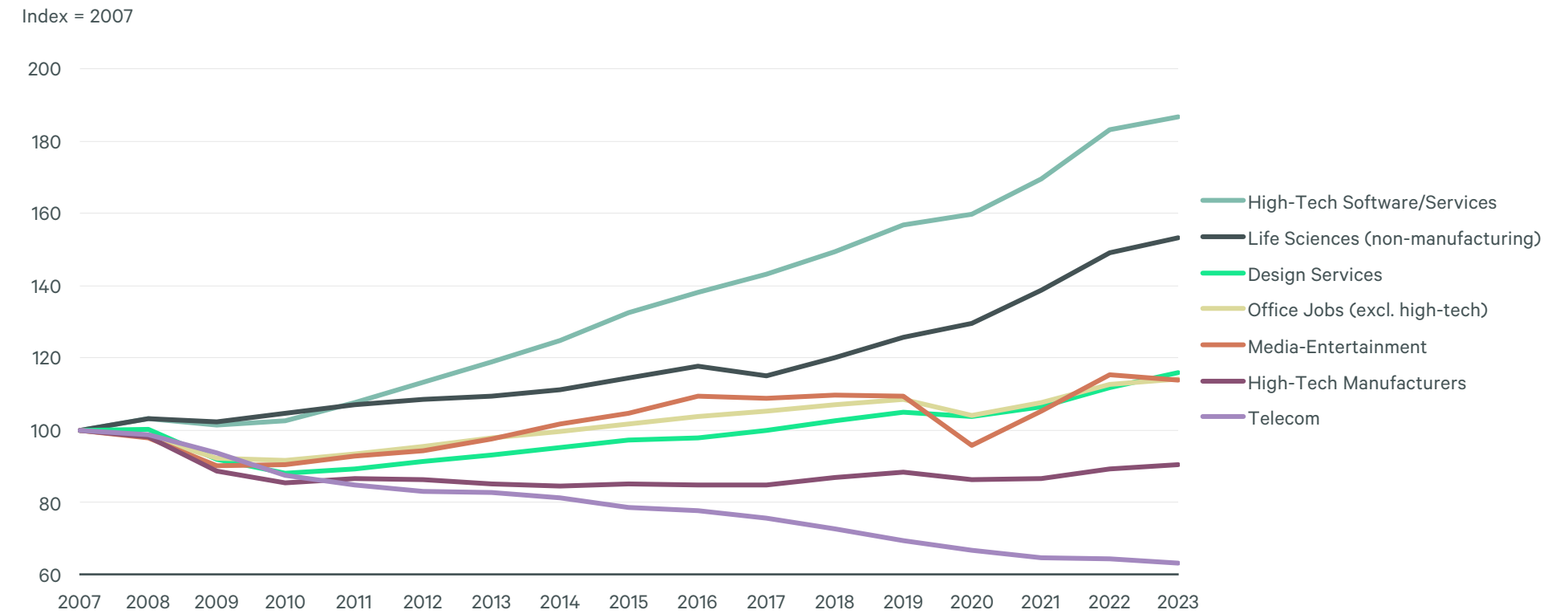
but it remained positive and is showing signs of rebounding. Venture capital funding for and leasing activity by artificial intelligence (AI) companies will boost the long-term growth of Tech-30 markets.

Current U.S. tech industry employment is well above pre-pandemic levels (Figure 2) and it's been the top growth sector among major U.S. creative industries since 2007. However, tech software and services employment growth decelerated from 3.0% in H2 2022 to 0.4% in H1 2023, both compared with the preceding half year.

0.4%

Tech software and services employment is well above pre-pandemic levels and grew by 0.4% in H1 2023 amid mass layoffs

FIGURE 2: U.S. Job Growth for High-Tech & Creative Industries



Source: U.S. Bureau of Labor Statistics, Oxford Economics and CBRE Research, August 2023.

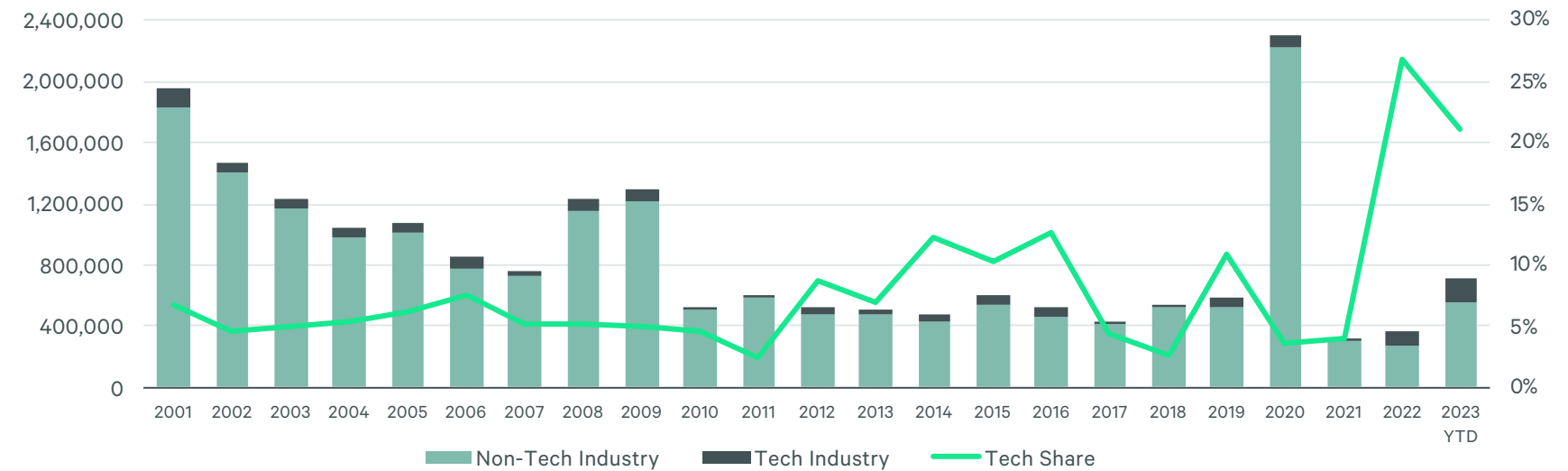
Tech sectors that saw major layoffs, such as software publishing and social networks, were offset by job growth in others, such as computer system design and computing infrastructure providers.

Fewer layoffs may indicate the tech industry's cost-cutting cycle is bottoming, with potential for growth to resume next year. Job search firm Challenger, Gray & Christmas reports that September 2023 marked the fewest tech industry layoff announcements since June 2022, which preceded the rise in major layoffs (Figures 3 and 4).

Tech job postings also rebounded in mid-2023 as many firms refocused business strategy and new hiring on growth initiatives and emerging technologies such as AI.

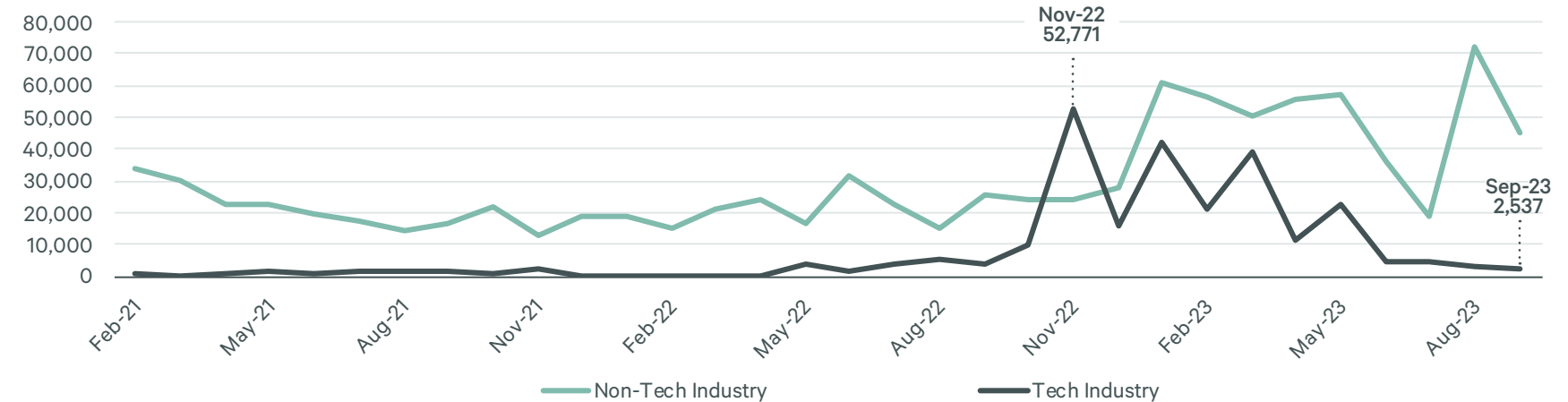
Job search firm Challenger, Gray & Christmas reports that September 2023 marked the fewest tech industry layoff announcements since June 2022, which preceded the rise in major layoffs.

FIGURE 3: Annual U.S. Layoffs & Tech Industry Share



Source: Challenger, Gray & Christmas, Inc., Sep 2023.

FIGURE 4: Monthly U.S. Layoffs



Source: Challenger, Gray & Christmas, Inc., Sep 2023.

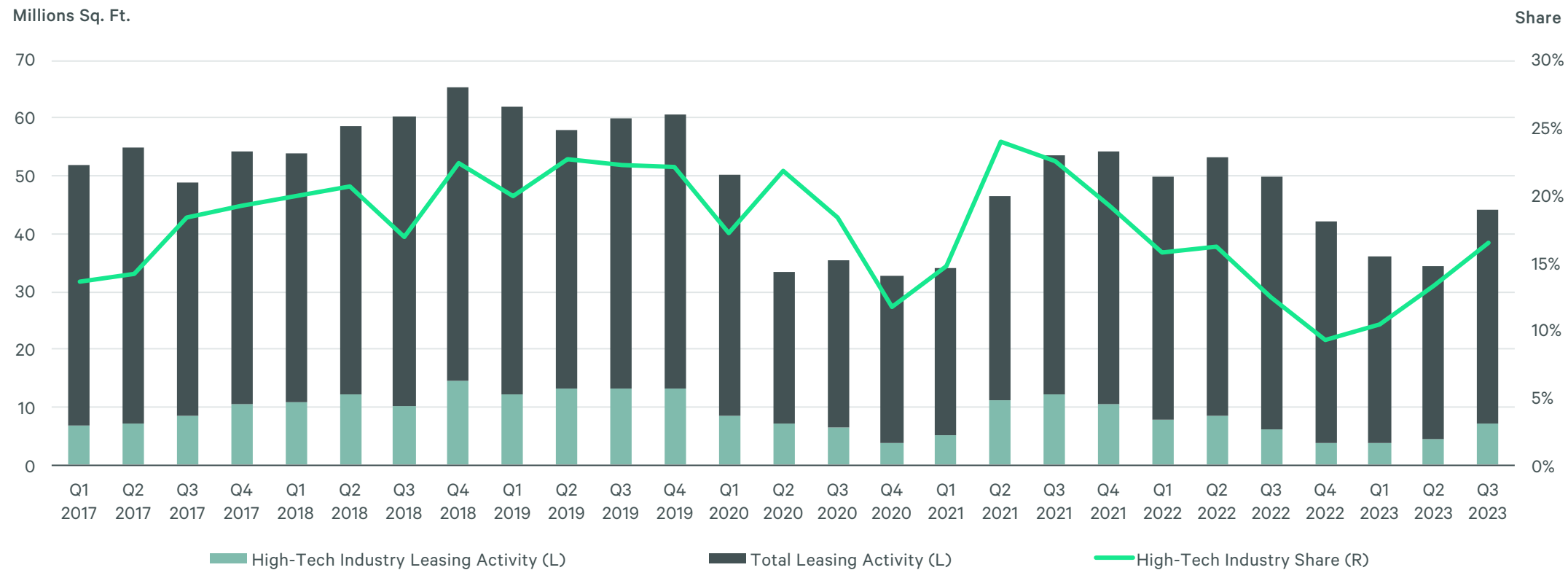
U.S. tech industry leasing volume has also started to rebound even as overall office leasing declined. Tech's share of overall office leasing rose from 9% (3.9 million sq. ft.) in Q4 2022 to 17% (7.3 million sq. ft.) in Q3 2023 (Figure 5). Overall office leasing sharply increased in 2021 when return-to-office seemed like the dominant trend. It then declined due to evolving work patterns and macroeconomic headwinds. However, building security company Kastle

Systems reported average office occupancy in August, relative to pre-pandemic levels, increased by five percentage points between 2022 (43%) and 2023 (48%) — a positive indicator.

The tech industry's near-term rebound should bolster Tech-30 office markets. Some markets and submarkets have performed better than others and benefitted from the flight

to quality and more vibrant mixed-use submarkets, including Nashville's Central Business District, Vancouver's Broadway Corridor and Atlanta's Midtown.

FIGURE 5: U.S. Office Leasing Activity & Tech Industry Share



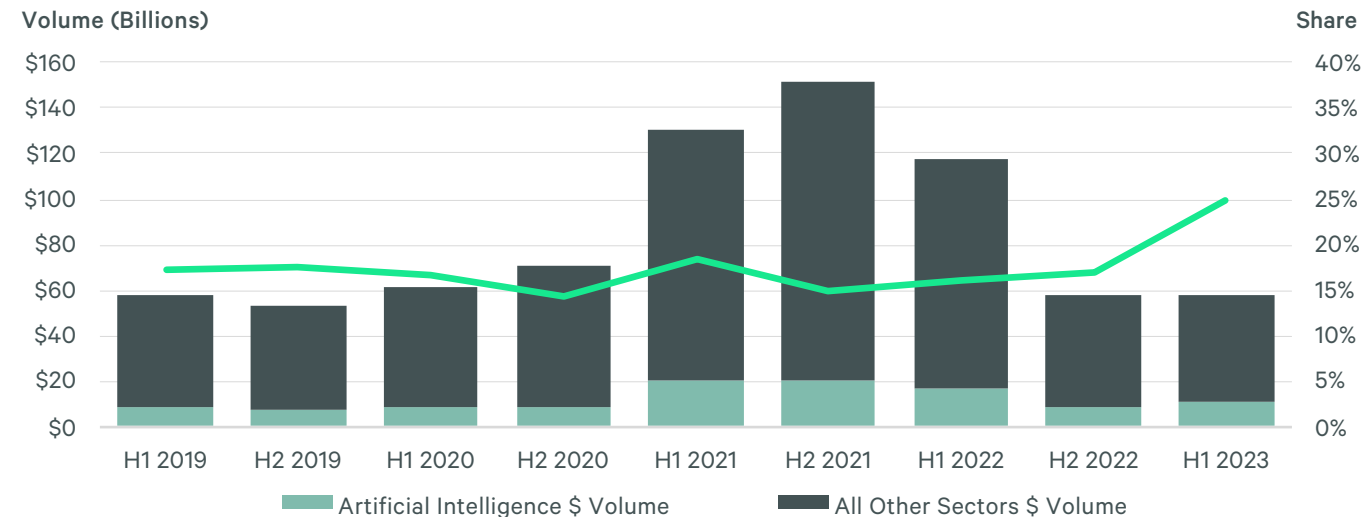
Source: CBRE Research and CBRE Tech Insights Center, Q3 2023.
 Note: Leasing activity includes direct, sublease and renewal transactions ≥ 10,000 sq. ft. in the top 50 markets tracked by CBRE Research.

The long-term growth prospects of the technology industry and, therefore, the Tech-30 markets, remains strong as global economies digitally transform. Innovations such as AI will catalyze the next tech growth cycle, producing significant economic value, employment and office leasing demand. Venture capital funding for U.S. AI companies totaled \$110 billion since 2019. AI's share of total funding increased from 17% in H1 2019 to 25% in H1 2023 (Figure 6). The San Francisco Bay Area was the dominant region for AI funding, receiving 55% of the U.S. total since 2019, followed by New York, Boston and Los Angeles. (Figure 7).

AI companies have grown across the top five VC funding markets (San Francisco, Silicon Valley, New York, Boston and Los Angeles/Orange County), with 7.5 million sq. ft. leased across more than 300 deals since 2019. Silicon Valley and San Francisco were the most active markets for AI leasing by volume, each with over 2 million sq. ft. leased. The 10 largest AI companies in the market for space in San Francisco as of September 2023 are collectively seeking almost 700,000 sq. ft., which would more than triple their current footprint.

AI innovation's impact on business growth could be at the scale of the mobile internet and smart phones over 15 years ago. The ensuing demand for real estate will significantly benefit Tech-30 markets.

FIGURE 6: U.S. Venture Capital Funding & Artificial Intelligence Share

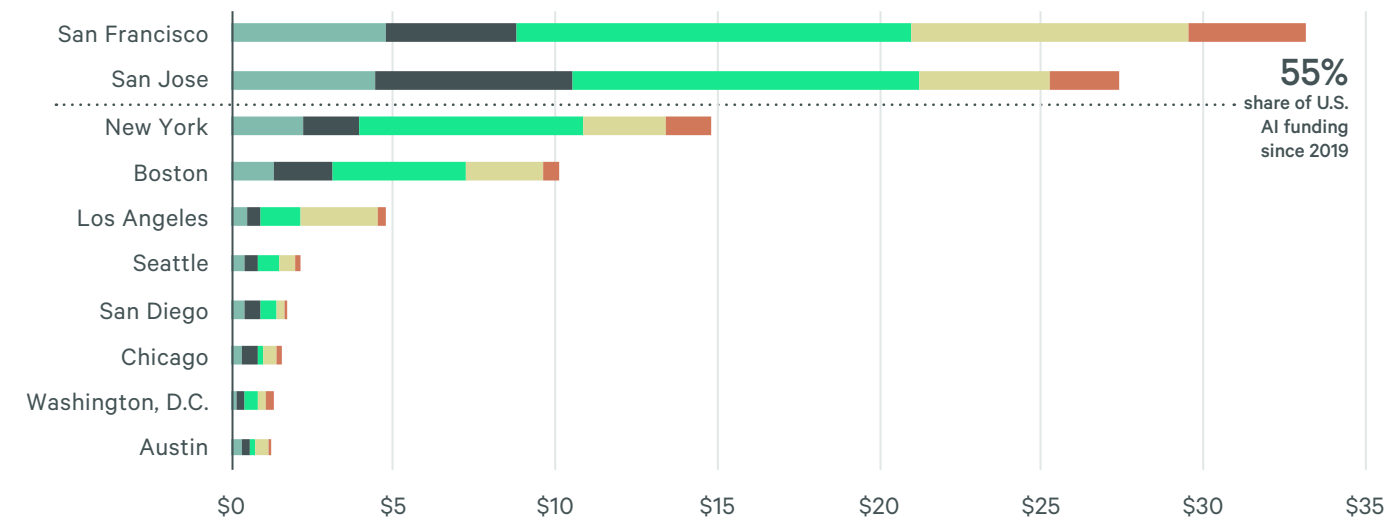


Source: CB Insights and CBRE Research, July 2023.

25%

AI share of U.S. Venture capital funding, H1 2023

FIGURE 7: AI VC Funding by Metro Area and Year



Source: CBRE Research and CBRE Tech Insights Center, Q3 2023.

7.5M

Sq. ft. leased by AI companies since 2019



AI companies have grown across the top five VC funding markets, with 7.5 million sq. ft. leased across more than 300 deals since 2019.

03

Which are the top markets
for high-tech job growth?

The Tech-30 comprises the tech markets in the U.S. and Canada with the most growth over the past decade, fueled by rapid innovation that drives productivity and advances digital lifestyles.

High-tech software and services job growth patterns continue to change with remote work and migration trends. High-tech employment grew 10.1% in the U.S. and 15.7% in Canada in 2020 and 2021. Collectively, Tech-30 markets' two-year (2020 and 2021) high-tech employment grew by 9.1% (Figure 8). Eleven of them exceeded the national high-tech job growth rate average, including Austin, Denver and Salt Lake City. Vancouver was the only Canadian market to exceed the national high-tech job growth rate average. Sixteen other markets in the U.S. and two in Canada did not exceed their national averages, including Silicon Valley, Boston and Washington, D.C. employment growth decelerated from 3.0% in H2 2022 to 0.4% in H1 2023, both compared with the preceding half year.

These growth patterns showed a broader geographical distribution of job creation beyond traditional tech strongholds. Tight labor market conditions and the pandemic both contributed to employers becoming more flexible on where employees can work, which will have future implications for these office markets.

Vancouver and Austin had the highest high-tech job growth over the prior two years (2021 and 2022) at 26.3% and 26.1%, respectively. New York created the most jobs (28,166) (Figure 8). Job growth in nineteen markets either remained the same or accelerated, including in Nashville, Salt Lake City, San Francisco, Phoenix, Denver and Portland. Most of the 11 other markets still saw strong high-tech job growth, albeit less than in the prior period.

FIGURE 8: High-Tech Software/Services Job & Office Rent Growth, Past Two Years

HIGH-TECH SOFTWARE/SERVICES JOB GROWTH						OFFICE MARKET RENT GROWTH RATE			
Rank	Market	Growth rate		Number of new jobs		Rank	Market	Current period Q2 '21 vs. Q2 '23	Previous period Q2 '19 vs. Q2 '21
		Current Period 2021 & 2022	Previous Period 2019 & 2020	High-Tech 2021 & 2022	Office-Using (less high-tech) 2021 & 2022				
1	Vancouver	26.3%	36.3%	15,900	9,900	1	Austin	15.0%	10.8%
2	Austin	26.1%	25.8%	16,952	83,395	2	Vancouver	13.8%	13.3%
3	Denver	23.7%	16.4%	19,637	23,768	3	Chicago	9.7%	3.6%
4	Salt Lake City	22.9%	13.0%	11,104	32,035	4	Seattle	8.6%	16.0%
5	Charlotte	21.3%	22.0%	5,963	25,941	5	Montreal	8.4%	10.2%
6	New York	17.2%	10.0%	28,166	63,844	6	Raleigh-Durham	8.0%	0.8%
7	Raleigh-Durham	17.1%	11.8%	6,839	40,878	7	Toronto	7.9%	-0.1%
8	Nashville	17.1%	5.8%	3,079	26,601	8	Nashville	7.7%	5.8%
9	San Francisco	14.2%	6.1%	15,461	27,305	9	Pittsburgh	7.6%	0.4%
10	Phoenix	13.4%	5.7%	12,215	56,115	10	Baltimore	7.4%	-0.1%
11	Seattle	13.2%	16.6%	20,902	114,234	11	St. Louis	6.6%	6.2%
12	Dallas/Ft. Worth	12.5%	7.8%	13,823	143,926	12	Philadelphia	6.5%	2.4%
13	Toronto	10.9%	44.6%	16,400	37,500	13	Phoenix	6.3%	8.3%
14	Portland	10.0%	3.4%	2,752	15,994	14	Dallas/Ft. Worth	5.7%	18.0%
15	St. Louis	9.4%	6.0%	2,583	-27,955	15	Salt Lake City	5.5%	5.4%
16	Chicago	9.0%	2.8%	9,178	-14,632	16	Portland	5.2%	-1.1%
17	Indianapolis	5.5%	-0.9%	1,200	6,456	17	Los Angeles	5.0%	7.4%
18	Atlanta	3.7%	9.9%	3,624	54,736	18	Denver	3.7%	8.9%
19	Montreal	3.6%	11.6%	3,400	37,700	19	Washington, D.C.	3.2%	-2.0%
20	Silicon Valley	3.2%	3.0%	7,603	33,166	20	Charlotte	3.1%	11.2%
21	Boston	1.6%	1.6%	2,044	40,014	21	Atlanta	2.9%	4.4%
22	Minneapolis/St. Paul	1.6%	3.9%	695	5,165	22	Indianapolis	2.7%	4.7%
23	Los Angeles	1.1%	-3.2%	997	118,385	23	New York	2.0%	-5.7%
24	Washington, D.C.	1.0%	0.0%	2,033	19,749	24	San Diego	1.9%	3.9%
25	Orange County	0.6%	-0.2%	219	19,649	25	Boston	1.4%	3.2%
26	Philadelphia	0.4%	3.4%	190	18,026	26	Silicon Valley	1.1%	0.4%
27	Baltimore	-0.5%	-0.2%	-191	4,116	27	Minneapolis/St. Paul	-0.1%	-0.9%
28	Pittsburgh	-0.6%	4.9%	-110	2,015	28	Detroit	-0.2%	0.5%
29	San Diego	-0.7%	2.2%	-254	33,415	29	San Francisco	-2.4%	-12.0%
30	Detroit	-4.9%	-8.3%	-2,198	21,495	30	Orange County	-2.7%	-2.0%

Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

26%

Vancouver and Austin job growth rate in 2020 and 2021, highest among the Tech-30 markets.

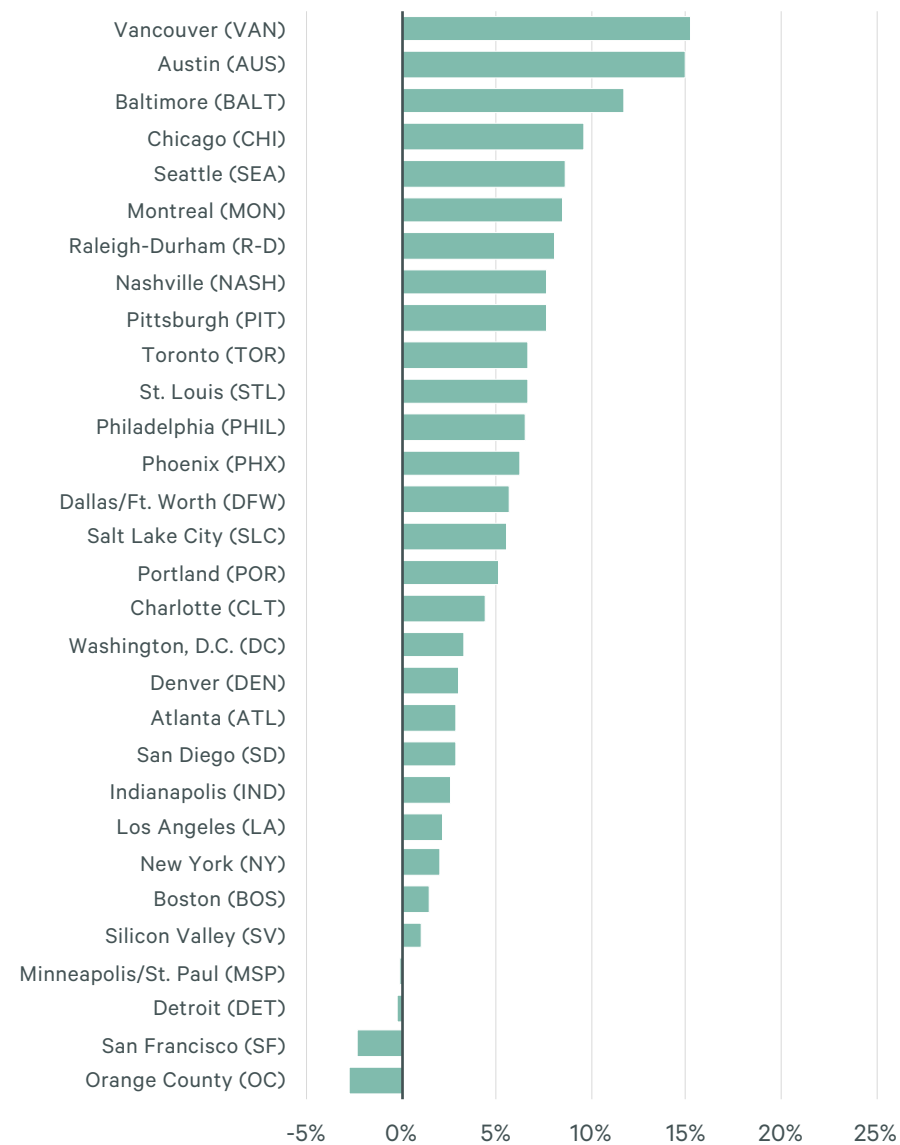
12+%

Office rent increase in Austin and Vancouver since Q2 2021.

High-tech job growth is strongly correlated with office rent growth in Tech-30 markets. Austin and Vancouver posted rent growth of 12% or more between Q2 2021 and Q2 2023. Baltimore, Chicago, Seattle, Montreal, Raleigh-Durham, Nashville and Pittsburgh saw high single-digit growth (Figure 9.1).

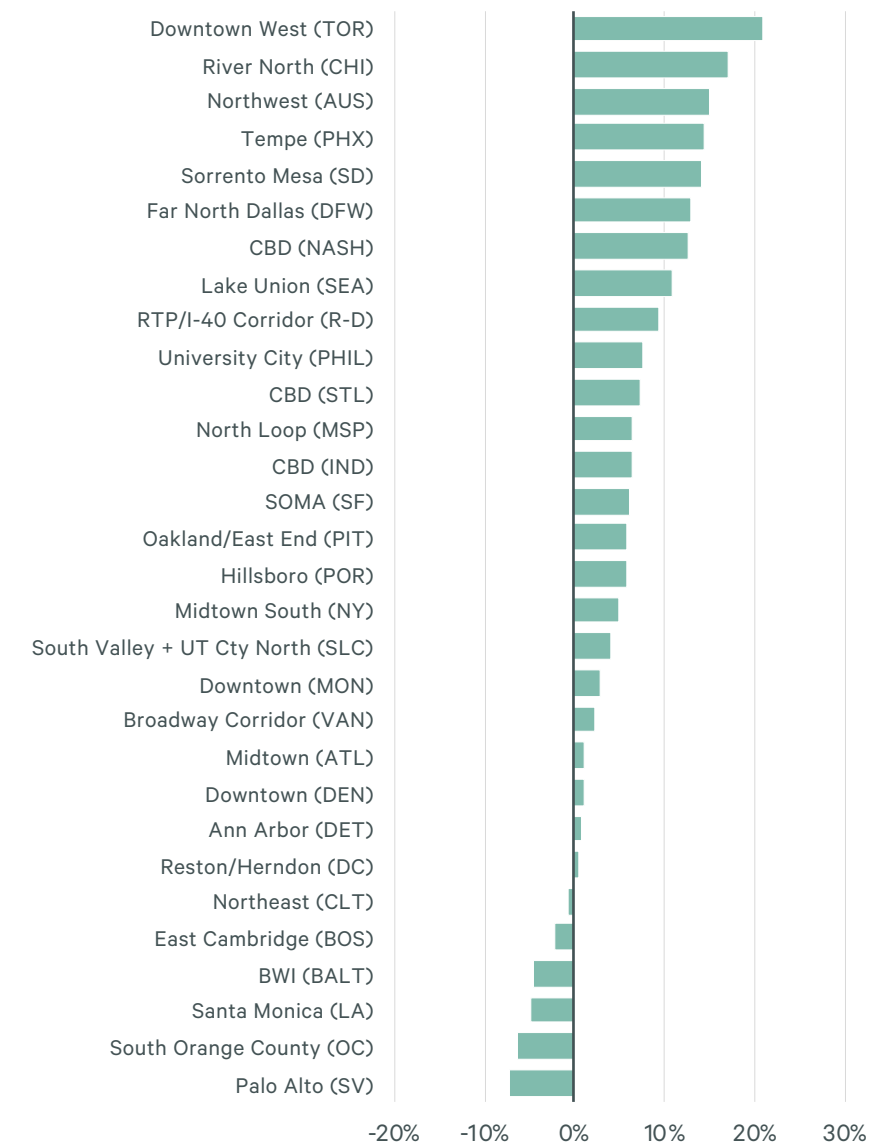
Office rents also increased by 12% or more in seven primary tech submarkets between Q2 2021 and Q2 2023, led by increases of 21% in Downtown West in Toronto and 17% in the River North in Chicago (Figure 9.2). The top markets for net absorption during this period were Nashville, Austin and Vancouver (Figure 9.3). The top submarkets for net absorption were Nashville's CBD, Vancouver's Broadway Corridor and Atlanta's Midtown (Figure 9.4).

FIGURE 9.1: Rent Growth Overall Market Q2 2021 vs. Q2 2023



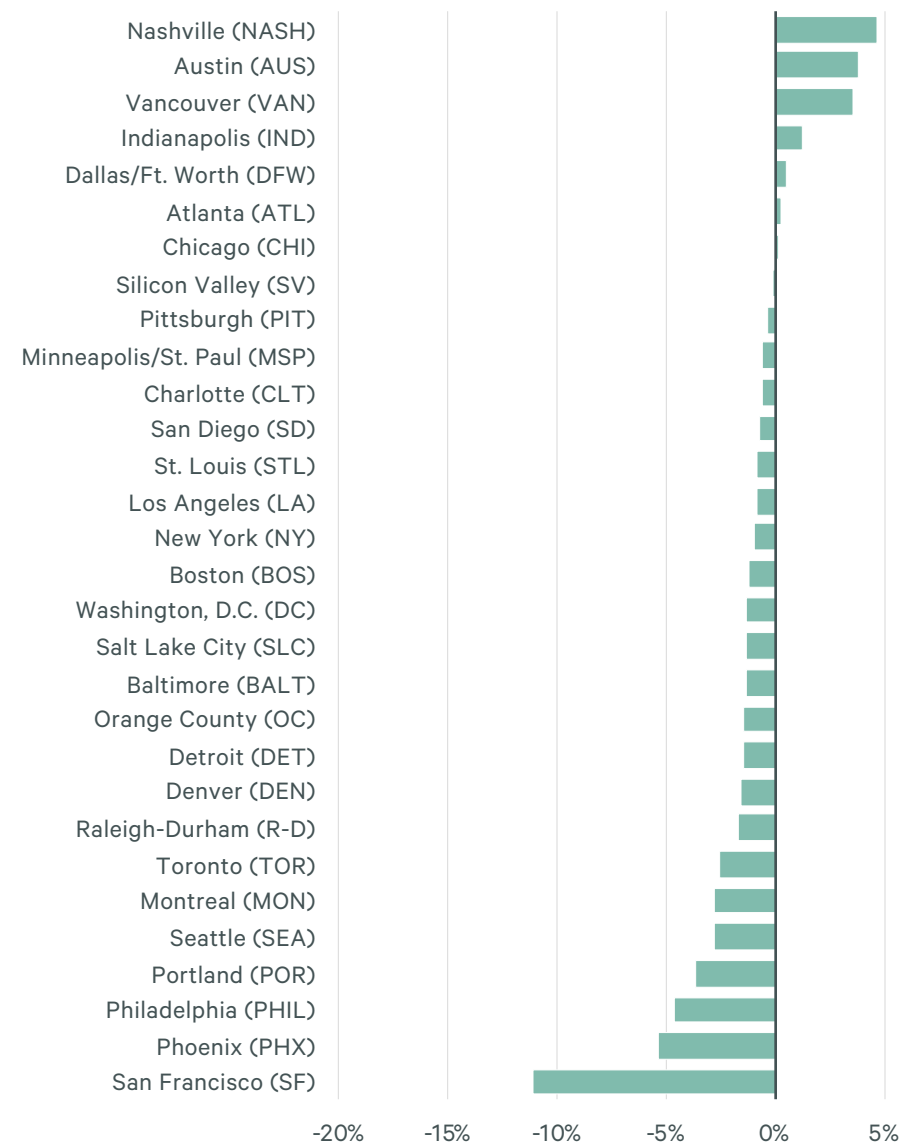
Source: CBRE Research, Q2 2023.

FIGURE 9.2: Rent Growth Top Tech Submarket Q2 2021 vs. Q2 2023



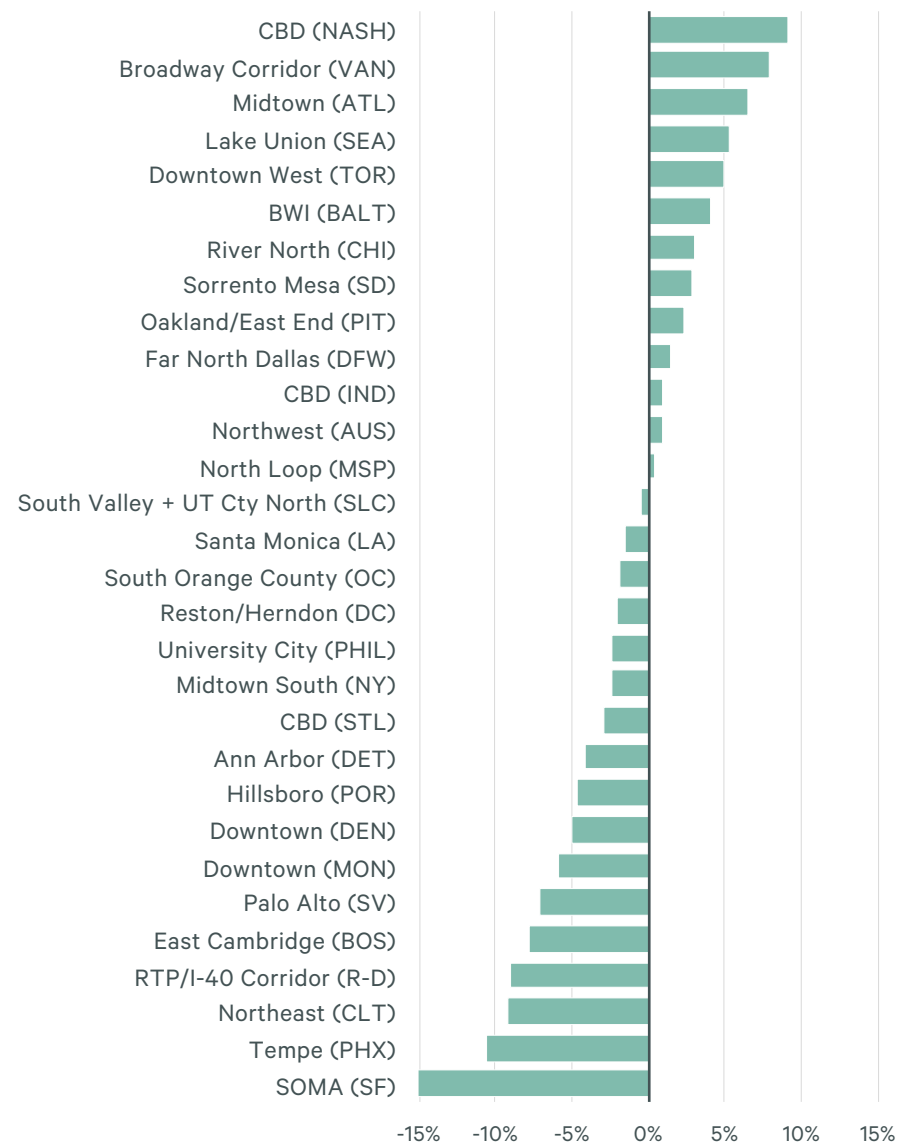
Source: CBRE Research, Q2 2023.

FIGURE 9.3: Net Absorption Growth Overall Market Q3 2021 vs. Q2 2023
(% of total building inventory)



Source: CBRE Research, Q2 2023.

FIGURE 9.4: Net Absorption Growth Top Tech Submarket Q3 2021 vs. Q2 2023
(% of total building inventory)



Source: CBRE Research, Q2 2023.

The top markets for net absorption growth between Q3 2021 and Q2 2023 were Nashville, Austin and Vancouver (Figure 9.3). The top submarkets for net absorption were Nashville's CBD, Vancouver's Broadway Corridor and Atlanta's Midtown (Figure 9.4).



Vancouver and Austin had the highest high-tech job growth over the prior two years (2021 and 2022) at 26.3% and 26.1%, respectively. New York created the most jobs (28,166).

Tech submarkets outperform

Leading tech submarkets often outperform their overall office markets because many tenants are willing to pay a premium in vibrant and centrally located areas preferred by tech employees. Many of these submarkets have limited office availability and are near leading universities. The top tech submarkets with the lowest vacancy rates as of Q2 2023 were Vancouver's Broadway Corridor (6.2%), Baltimore's BWI (10.3%), Boston's East Cambridge (10.9%), South Orange County (11.9%) and San Diego's Sorrento Mesa (12.2%).

The tech industry's prominence in these submarkets continues to pressure rents upward, despite lower leasing activity (Figure 10). Average rental rates for top tech submarkets have remained higher than their overall markets since 2011. They have a 10.2% premium, as of Q2 2023, despite a dip in top tech submarket rents during the pandemic. Rents in some top tech submarkets are significantly higher, such as Boston's East Cambridge (107%), Silicon Valley's Palo Alto (57%), Santa Monica (52%),

Pittsburgh's Oakland/East End (52%) and Philadelphia's University City (47%). Several tech submarkets have rent discounts, such as Portland's Hillsboro (-23%), Northeast Charlotte (-20%), Washington, D.C.'s Reston/Herndon (-17%) and St. Louis's CBD (-17%).

10.2%

Tech submarket rent premium as of Q2 2023

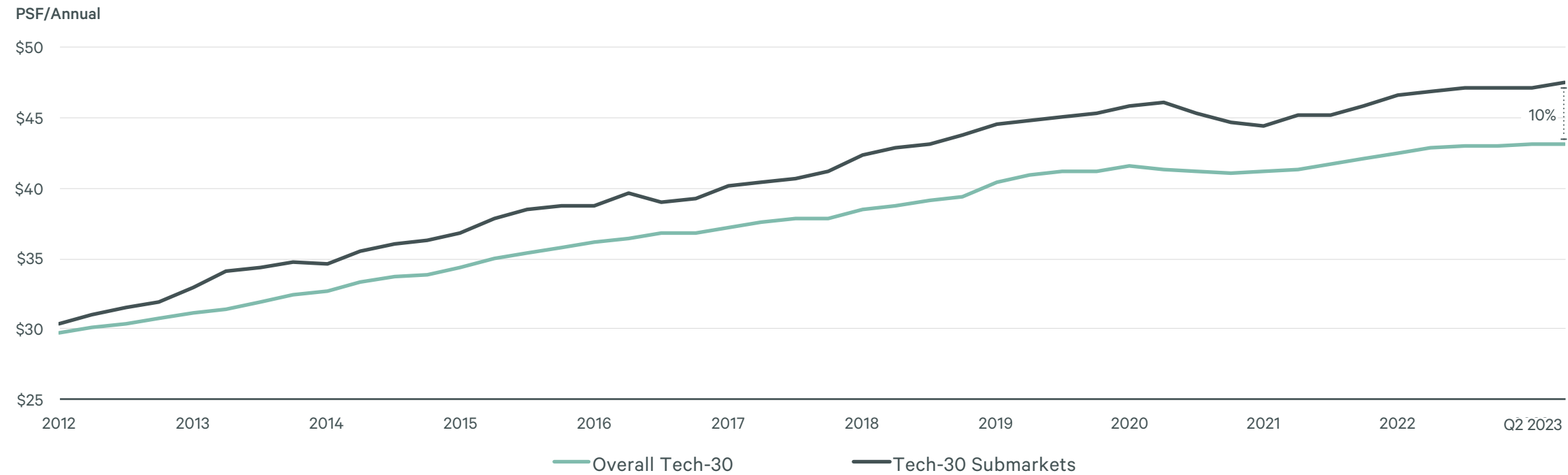
6.2%

Vacancy rate in Vancouver's Broadway Corridor, Q2 2023

107%

Increase in average rental rates in Boston's East Cambridge between 2012 and Q2 2023

FIGURE 10: Tech-30 Markets & Submarkets Aggregate Annual Average Asking Rent



Source: CBRE Research, Q2 2023.

Increased sublease supply remains a market risk

The tech industry has leased the most U.S. and Canada office space of any industry since 2010. Tech's share of total office leasing activity by square footage rose from 12% in 2010 to 21% in 2019. The pandemic reduced tech's share to 17% in 2020. However, due to economic conditions, it has been trending up and down, with the past two quarters showing a significant rise.

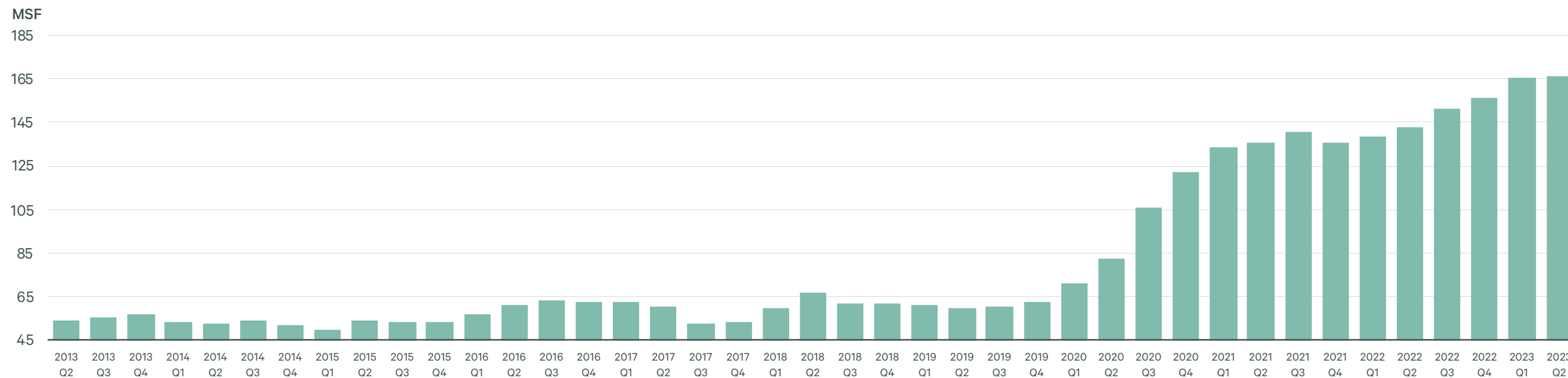
to reassess their portfolio needs. Some companies have reduced their office footprints by subleasing space or not fully renewing leases. While these cost-cutting measures were not isolated to the tech industry, they were more pronounced in certain tech-oriented markets where high levels of pre-pandemic leasing activity occurred.

Growth and occupancy dynamics have evolved since the start of the pandemic, causing many office space occupiers

25%

Tech's share of available sublease space in Q2 2023

FIGURE 11: Tech-30 Aggregate Available Sublease Office Space



Source: Costar, CBRE Research, August 2023.

166M

Available sublease space in Tech-30 markets (in sq. ft.), Q2 2023

11%

Sublease availability rate in San Fransico, the highest position on the risk spectrum

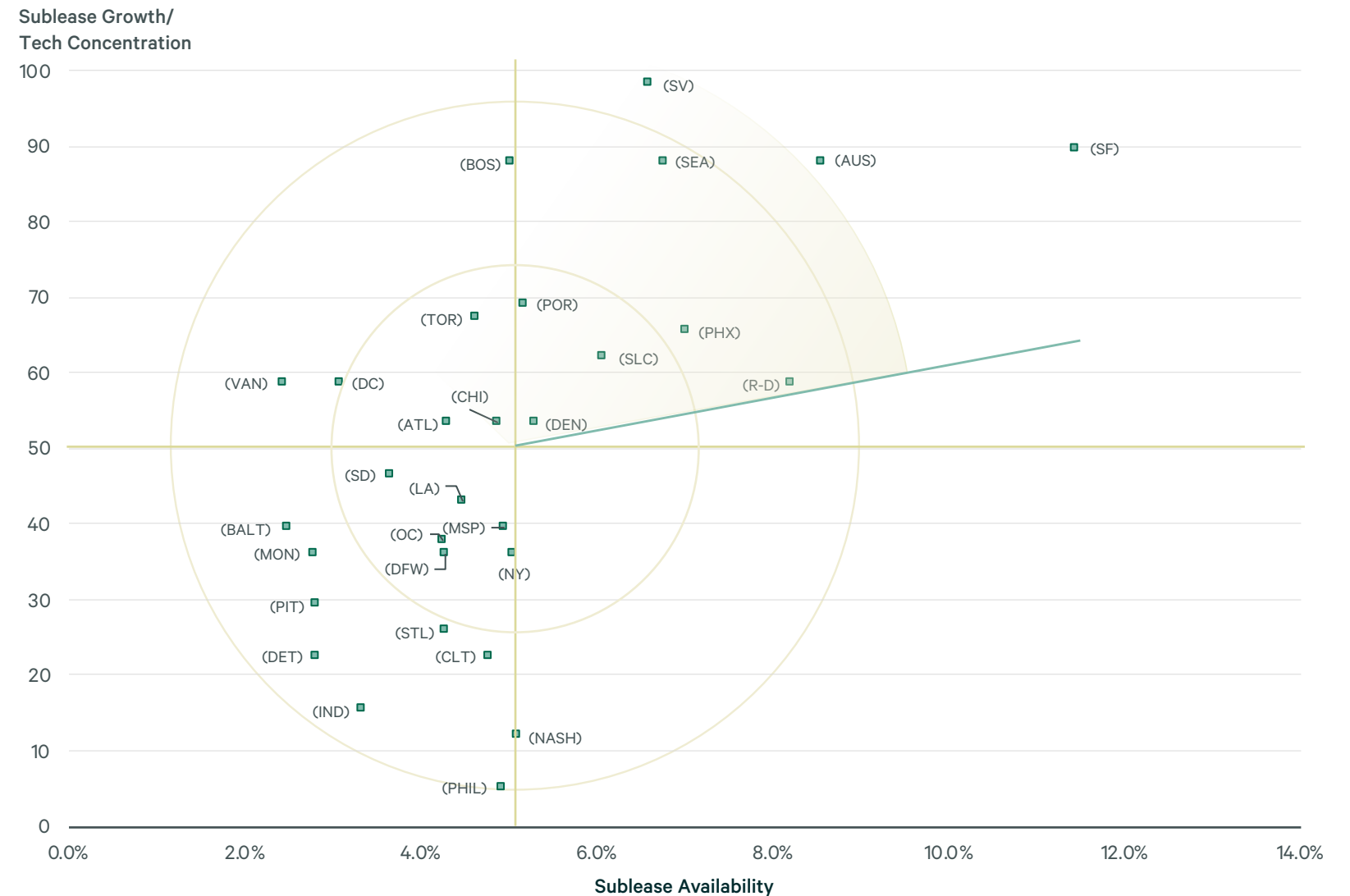
Available sublease space in Tech-30 markets started to rise rapidly in 2020 amid reduced tenant demand. Surplus office space has more than doubled since Q4 2019 and reached a new high-water mark of 166 million sq. ft. in Q2 2023 (Figure 11). The rise in available sublease space varied considerably by market and was directly associated with remote and hybrid work policies, economic uncertainty, layoffs and the concentration of tech companies.

Tech companies currently account for 25% of available sublease space across Tech-30 markets, up from 20% in 2022. Potential risk in these markets stems from tech and other companies further downsizing due to permanent shifts to remote and hybrid working and more sublease space expiring and returning to landlords.

Sublease concentration and saturation are key variables that influence the potential risk sublease availability poses to office market fundamentals. The “Sublease Risk Radar” (Figure 12) plots sublease space growth and tech concentration against the saturation of sublease availability. The overall risk across Tech-30 markets is medium to high, with a 4.8% sublease availability rate of total inventory. Markets with a high concentration of tech, rising sublease space inventory and a high sublease availability rate (upper-right quadrant of the radar) have a medium to high level of risk that sublease space will further weaken market fundamentals.

San Francisco is at the highest position on the risk spectrum, with an 11.5% sublease availability rate. Silicon Valley remains the market with the highest growth and concentration of sublease availability from tech companies, followed by Seattle, Austin and Boston. Other markets with higher-than-average risk—those with above-average growth in the amount of sublease availability over the past year—include Portland and Phoenix.

FIGURE 12: Sublease Risk Radar - Tech Office Markets
Overall Risk Level: Medium-High



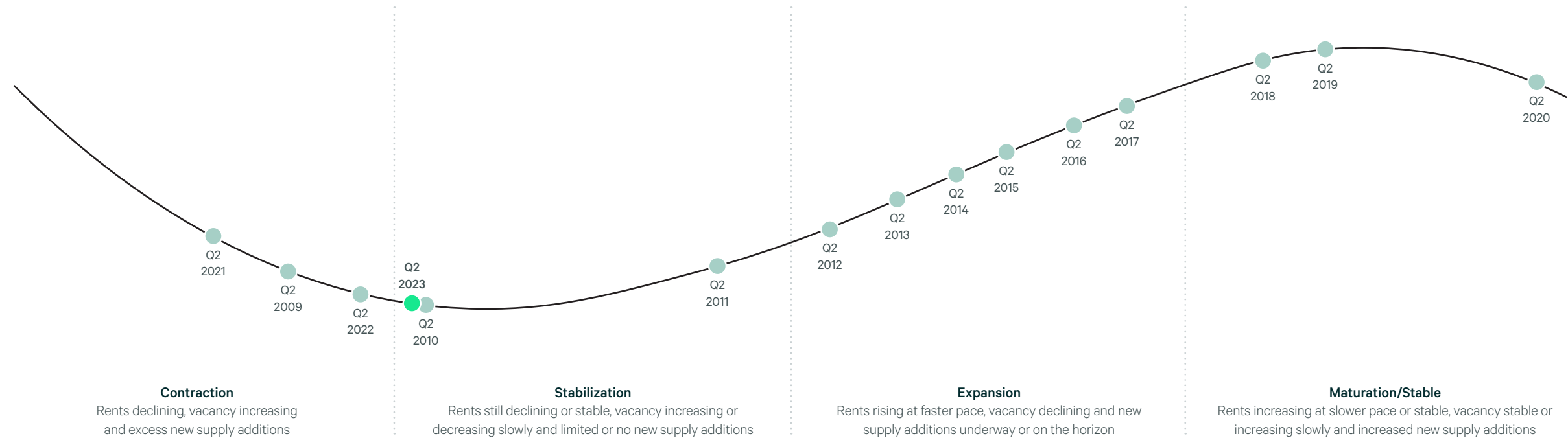
Note: Sublease Risk Radar measures the relative risk of tech sublease dispositions across top markets with available data. Sublease Growth/Tech Concentration is a function of sublease inventory growth over the past year and the concentration of disposed tech subleases during Q2 2023. Sublease Availability is the portion of the total market inventory available for sublease. The quadrant lines represent the aggregate average for each measure.
Source: CBRE Research, Q2 2023.

Market cycle positioning

Real estate cycles influence investment and occupancy decisions. Markets generally move across four cycle phases at varying degrees, with some remaining in one cyclical phase for an extended period. Most Tech-30 markets remained in the contraction phase of the office market cycle in Q2 2023, characterized by weakened demand, rising supply and falling rents (Figure 13). Some markets did not contract significantly, while others entered the stabilization phases, including Denver, Nashville, Pittsburgh and Salt Lake City.

Most Tech-30 markets remained in the contraction phase of the office market cycle in Q2 2023 and could stabilize over the next 12 months, characterized by increasing demand and modest changes in supply and rents.

FIGURE 13: Tech-30 Office Market Cycle



Source: CBRE Research, Q2 2023.



Surplus office space has more than doubled since Q4 2019 and reached a new high-water mark of 166 million sq. ft. in Q2 2023.

04

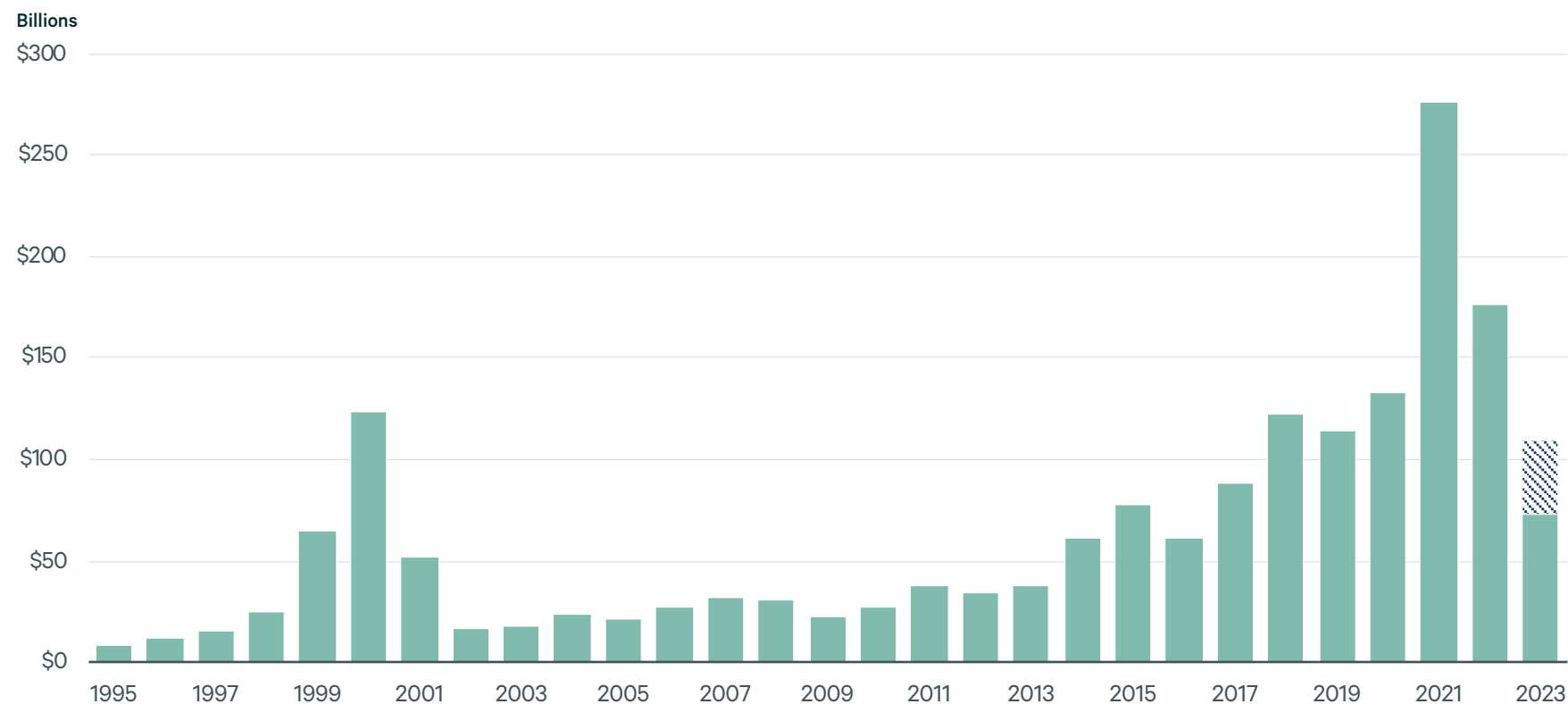
Tech industry indicators

CBRE finds that financial market trends are the most accurate indicators of the tech industry's growth prospects and monitoring them can provide clues as to the future direction of real estate demand.

Capital availability has been a harbinger of growth for the tech industry. Venture capital funding is a key indicator of business viability at a tech company's early growth stages. Therefore, capital flows into venture funds and venture-backed companies have heavily fueled private tech companies' business and employment growth.

Venture capital funding in the U.S. has significantly grown since 2010, according to CB Insights, but has declined since 2021 (Figure 14). It surged during the pandemic for companies that maintained long-term growth prospects and benefited from digital trends such as remote work and e-commerce. This led to record-high funding of \$276 billion in 2021. Funding dipped to \$176 billion in 2022. It is pacing to total \$110 billion in 2023, which is not too far below the \$123 billion average between 2018-2020.

FIGURE 14: U.S. Venture Capital Funding



Source: CB Insights and CBRE Research, August 2023.

\$123B

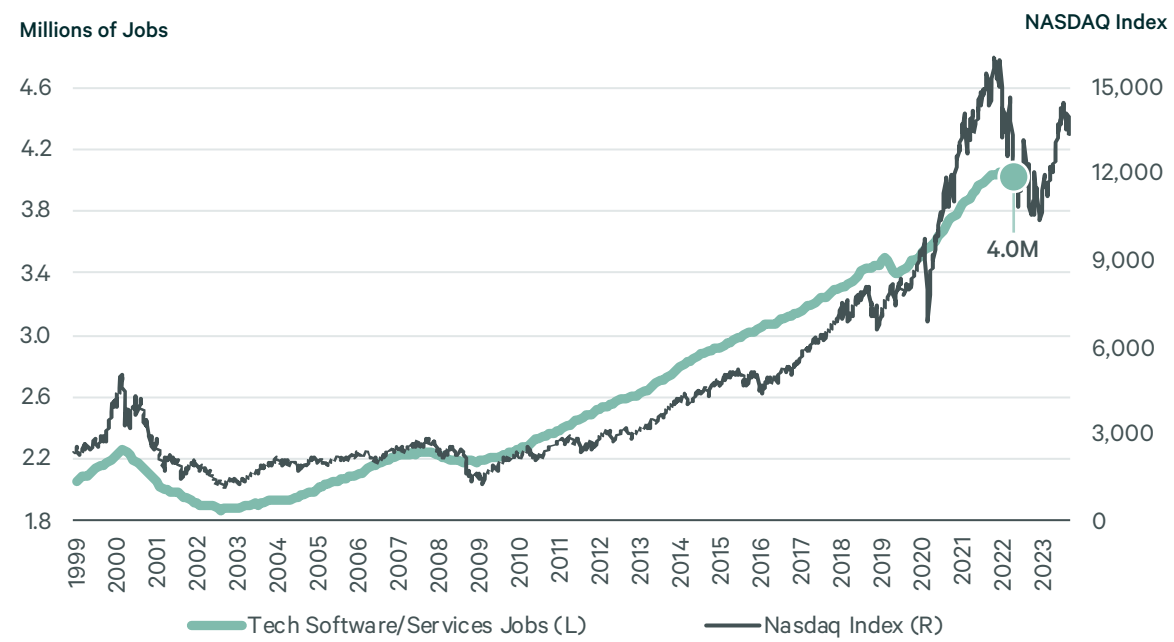
Venture capital funding average, 2018-2020

\$110B

Expected venture capital funding for full-year 2023

The Nasdaq Index has become a reliable indicator of business and employment activity since it is comprised heavily of tech companies. Analysis of high-tech employment patterns suggests the Nasdaq Index acts as a 12-month leading indicator of employment levels at a 93% correlation (Figure 15). The Nasdaq's extraordinary rise after its low in March 2020 was based on tech companies' future earnings potential and pandemic-related growth. By 2022, these growth prospects dimmed and the Nasdaq significantly sold off. The Nasdaq has rebounded in H1 2023 along with investor optimism for the tech industry. New technologies and areas of interest such as AI and environmental sustainability offer significant long-term growth potential for the high-tech industry.

FIGURE 15: Nasdaq vs. Tech Employment



Source: Nasdaq, U.S. Bureau of Labor Statistics and CBRE Research, August 2023.

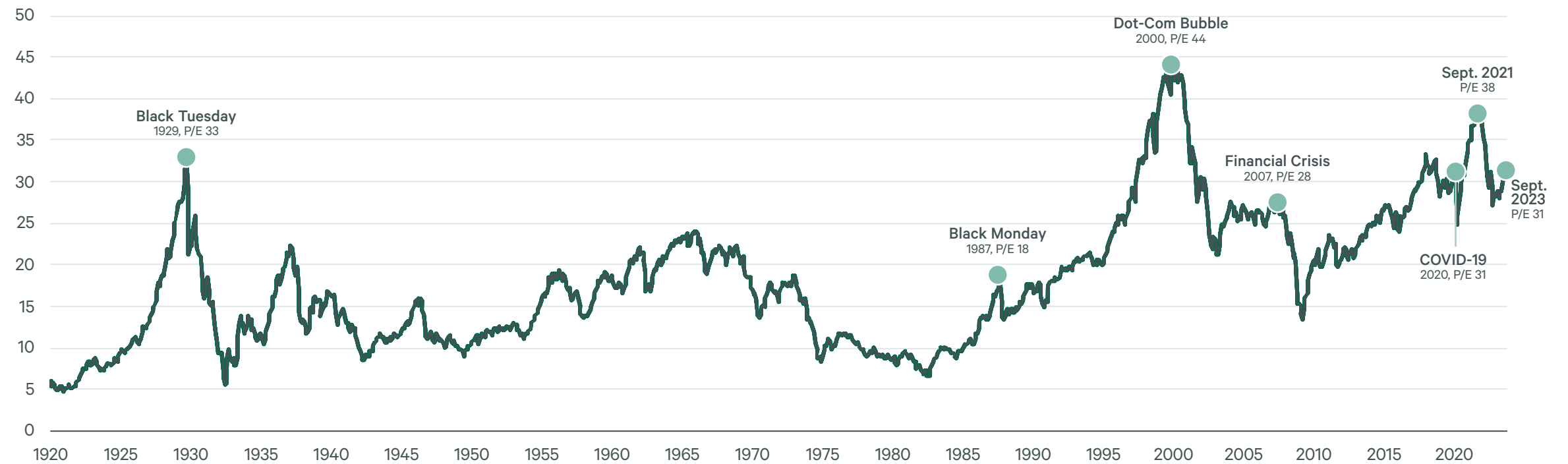


The Shiller S&P 500 Cyclically Adjusted Price-to-Earnings Ratio (CAPE) measures the broader equity market and is an important metric for gauging the financing environment and an economy's overall health (Figure 16). Historically, an above-average ratio has preceded significant financial market corrections. The CAPE ratio decreased by 18% over the past two years (September 2021 to September 2023), as the market has started to rebalance.

18%

Decrease in CAPE ratio,
September 2021 to
September 2023

FIGURE 16: Shiller S&P 500 Cyclically Adjusted Price-to-Earnings Ratio (CAPE RATIO)



Source: Shiller PE Ratio, September 2023.



New technologies and areas of interest such as AI and environmental sustainability offer significant long-term growth potential for the high-tech industry.

Prospects for tech companies remain strong as technological advancements grow amid changing global economic landscapes.

Persistently high interest rates remain a challenge to accelerating economic growth. However, there are promising tech sectors that will continue to grow. In particular, AI has significant potential for real estate and capital investment and is expected to benefit many of the Tech-30 markets in the years ahead.



12 month

leading indicator of high-tech employment (Nasdaq Index).

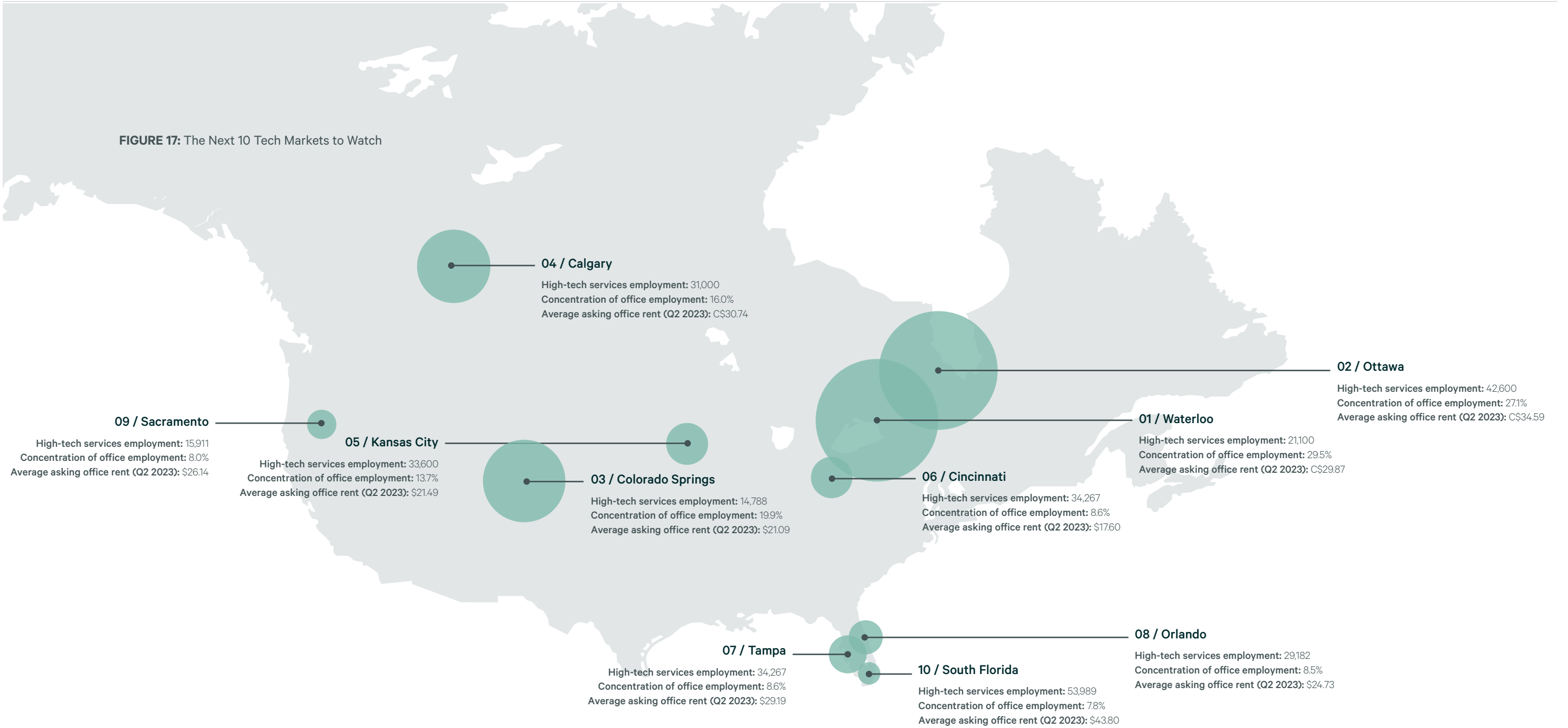
31▼

CAPE ratio has declined slightly from 30 last year.

05

Next 10 markets to watch

FIGURE 17: The Next 10 Tech Markets to Watch



Notes: *Waterloo, Ottawa and Calgary rents in C\$.
Bubble size is based on concentration of office employment.

Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

05

Market data

01 Vancouver

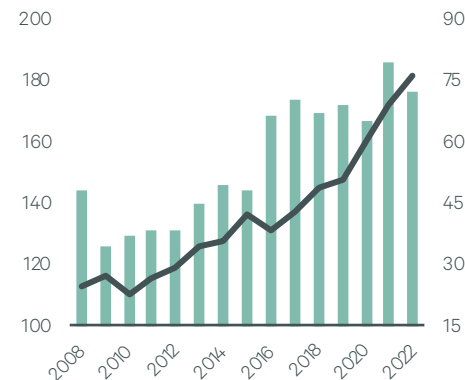
Quick Stats

Office market stats Q2 2023		High-tech industry stats, 2022	
Average Asking Rent* Direct FS/YR	\$56.20	Employment High-Tech Software/Services	76,300
Vacancy Rate	9.0%	Employment Clustering % of Office-Using Jobs	30.2%
Supply		Educational Attainment Residents w/ BA or higher	41.3%
Under Construction	2.7 MSF	Labor Cost (MSA)* Software Engineer	\$103,022
Sublease Available	1.3 MSF		
Top Tech Submarket	Broadway Corridor		
Rents/Vacancy*	\$52.76 / 6.2%		

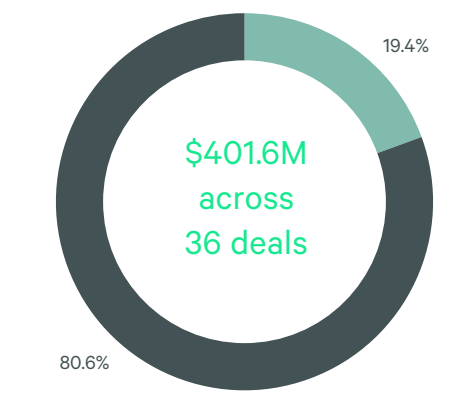
*Rent and Wages in C\$. Source: CBRE Research, Q2 2023.

Source: Statistics Canada, CBRE Research, Q2 2023.

High-tech software/services vs. Office-using jobs (thousands)



Venture Capital Funding by Industry H1 2023



High-tech software/services job and office rent growth

Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
1	Vancouver	26.3%	36.3%	15.3%	13.3%
2	Austin	26.1%	25.8%	15.0%	10.8%
3	Denver	23.7%	16.4%	3.1%	9.6%
4	Salt Lake City	22.9%	13.0%	5.5%	5.4%
5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

Ranked by high-tech job growth rate. Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth

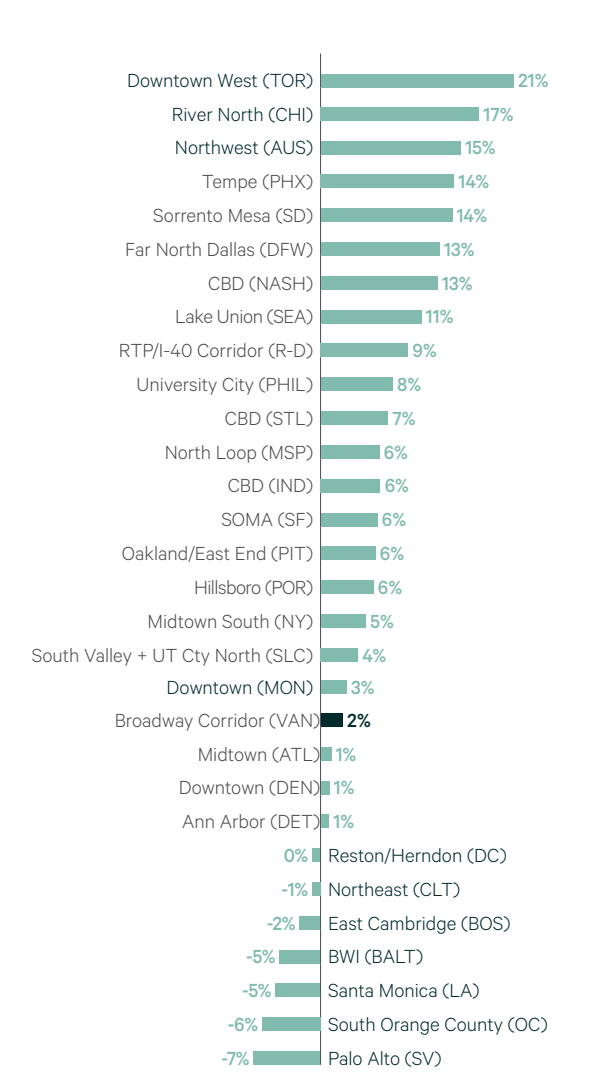
Overall market, past two years (Q3 2021-Q2 2023)



Net absorption as a % of total building stock. Source: CBRE Research, Q2 2023.

Rent growth

Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

02 Austin

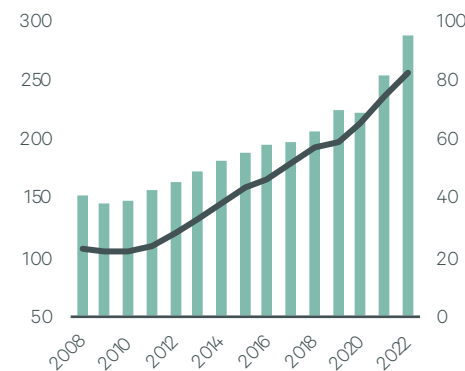
Quick Stats

Office market stats Q2 2023		High-tech industry stats, 2022	
Average Asking Rent Direct FS/YR	\$48.14	Employment High-Tech Software/Services	81,977
Vacancy Rate	21.3%	Employment Clustering % of Office-Using Jobs	22.2%
Supply		Educational Attainment Residents w/ BA or higher	50.0%
Under Construction	5.6 MSF	Labor Cost (MSA) Software Engineer	\$110,083
Sublease Available	5.5 MSF		
Top Tech Submarket	Northwest		
Rents/Vacancy	\$43.29 / 21.4%		

Source: CBRE Research, Q2 2023.

Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.

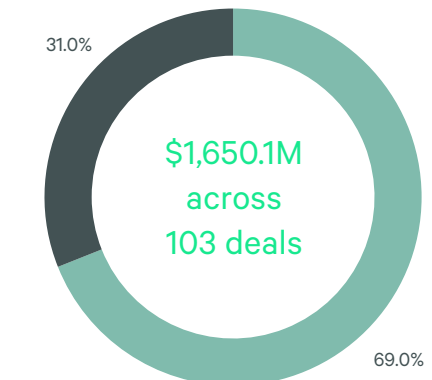
High-tech software/services vs. Office-using jobs (thousands)



● Office-Using Jobs, Excluding High-Tech (L)
● High-Tech Software/Service Jobs (R)

Source: U.S. Bureau of Labor Statistics, CBRE Research Q2 2023.

Venture Capital Funding by Industry H1 2023



● Tech Funding
● Remaining Funding

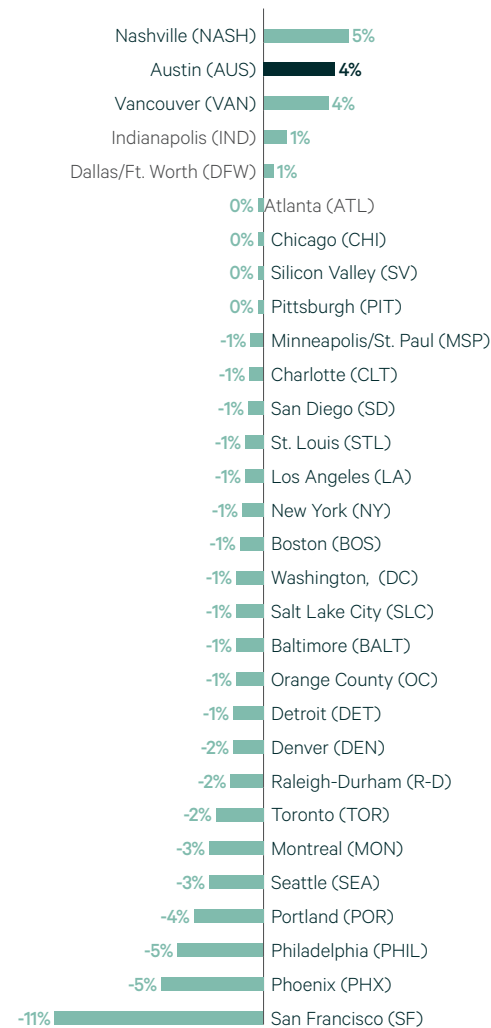
Source: CB Insights and CBRE Research, Q2 2023.

High-tech software/services job and office rent growth

Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
1	Vancouver	26.3%	36.3%	15.3%	13.3%
2	Austin	26.1%	25.8%	15.0%	10.8%
3	Denver	23.7%	16.4%	3.1%	9.6%
4	Salt Lake City	22.9%	13.0%	5.5%	5.4%
5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

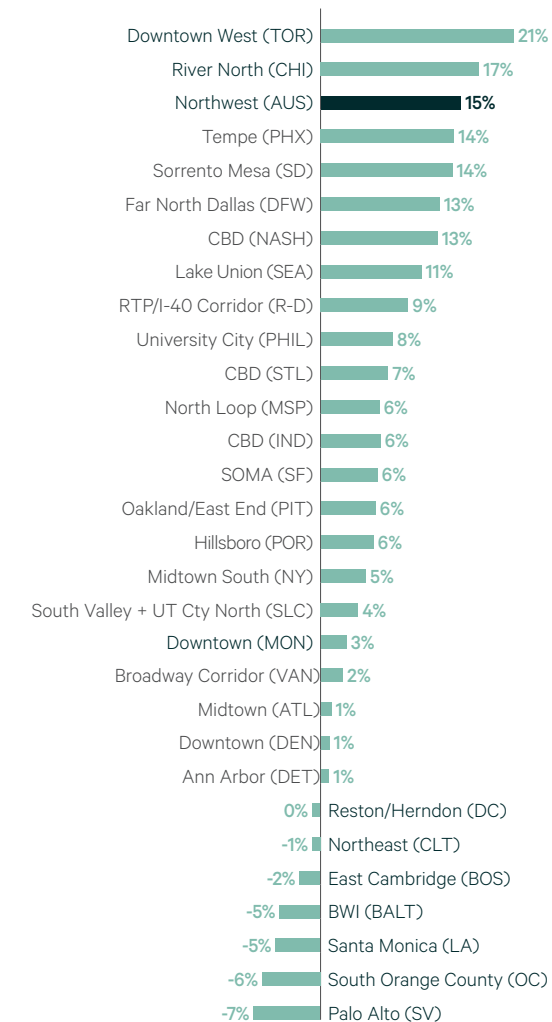
Ranked by high-tech job growth rate.
Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth Overall market, past two years (Q3 2021-Q2 2023)



Net absorption as a % of total building stock
Source: CBRE Research, Q2 2023.

Rent growth Top tech submarket, past two years (Q2 2021-Q2 2023)



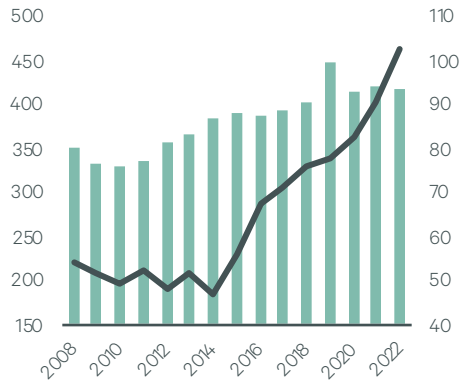
Source: CBRE Research, Q2 2023.

03 Denver

Quick Stats

Office market stats Q2 2023		High-tech industry stats, 2022	
Average Asking Rent Direct FS/YR	\$32.11	Employment High-Tech Software/Services	102,333
Vacancy Rate	21.2%	Employment Clustering % of Office-Using Jobs	19.7%
Supply			
Under Construction	2.4 MSF	Educational Attainment Residents w/ BA or higher	49.2%
Sublease Available	6.4 MSF	Labor Cost (MSA) Software Engineer	\$129,894
Top Tech Submarket Downtown		Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.	
Rents/Vacancy	\$39.60 / 28.8%	Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.	

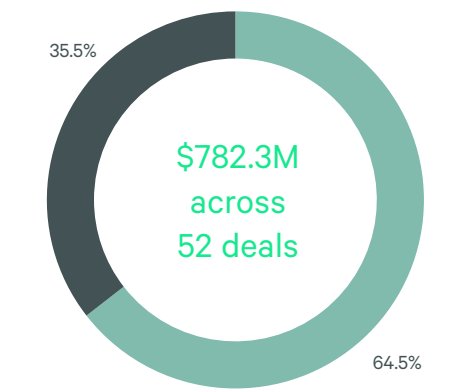
High-tech software/services vs. Office-using jobs (thousands)



● Office-Using Jobs, Excluding High-Tech (L)
● High-Tech Software/Service Jobs (R)

Source: U.S. Bureau of Labor Statistics, CBRE Research Q2 2023.

Venture Capital Funding by Industry H1 2023



● Tech Funding
● Remaining Funding

Source: CB Insights and CBRE Research, Q2 2023.

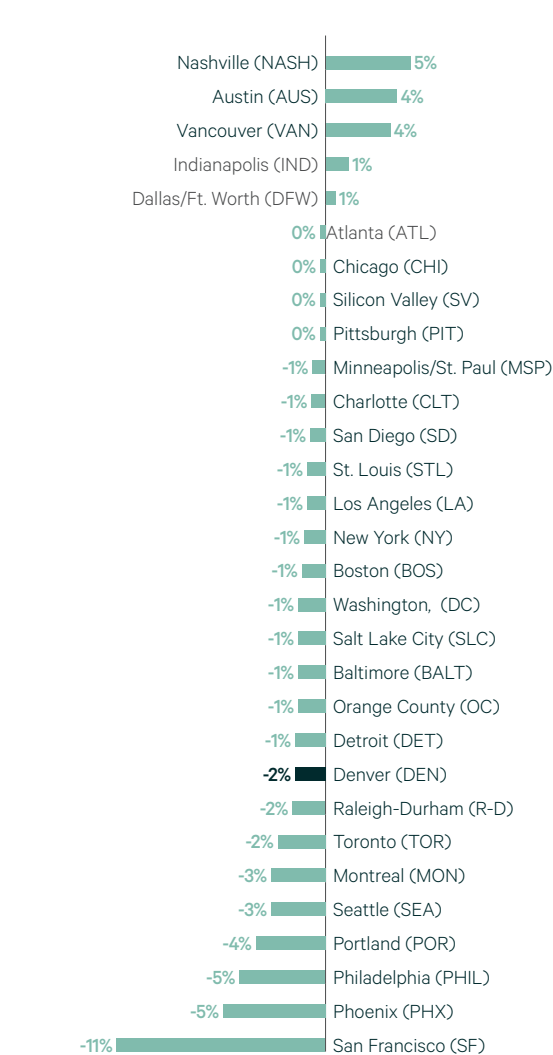
High-tech software/services job and office rent growth

Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
1	Vancouver	26.3%	36.3%	15.3%	13.3%
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4	Salt Lake City	22.9%	13.0%	5.5%	5.4%
5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
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21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
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28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

Ranked by high-tech job growth rate.
Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth

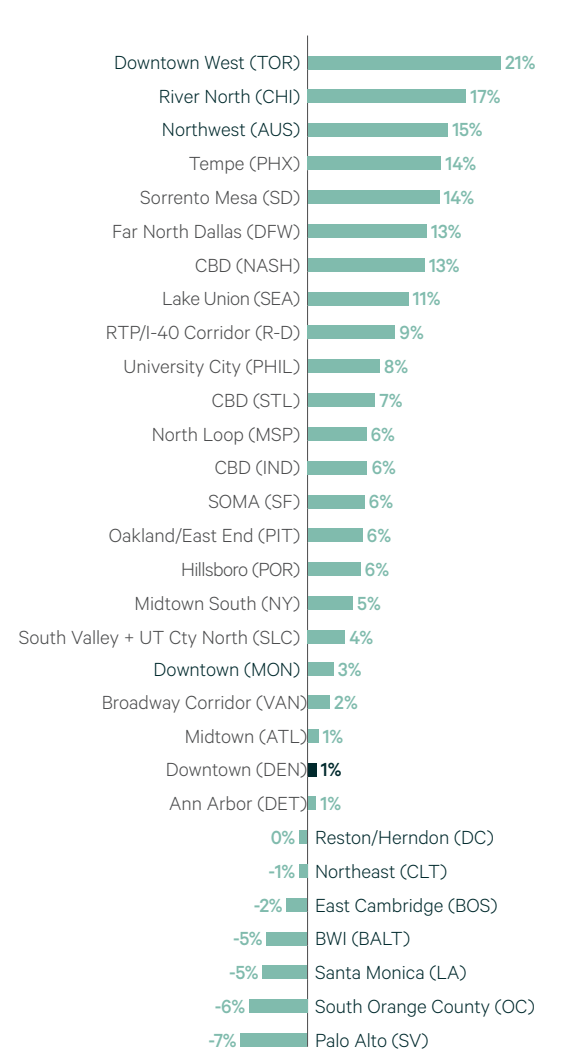
Overall market, past two years (Q3 2021-Q2 2023)



Net absorption as a % of total building stock
Source: CBRE Research, Q2 2023.

Rent growth

Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

04 Salt Lake City

Quick Stats

Office market stats Q2 2023

Average Asking Rent Direct FS/YR	\$26.48
Vacancy Rate	23.0%
Supply	
Under Construction	0.5 MSF
Sublease Available	3.4 MSF
Top Tech Submarket	S. Valley + UT Cty N.
Rents/Vacancy	\$26.60 / 219.3%

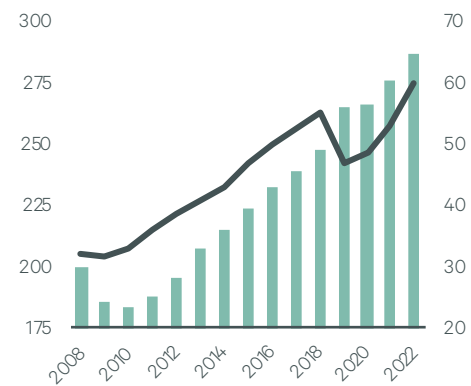
Source: CBRE Research, Q2 2023.

High-tech industry stats, 2022

Employment	59,622
High-Tech Software/Services	
Employment Clustering	17.2%
% of Office-Using Jobs	
Educational Attainment	39.1%
Residents w/ BA or higher	
Labor Cost (MSA)	\$101,951
Software Engineer	

Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.

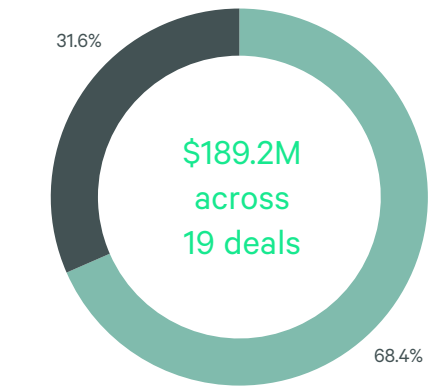
High-tech software/services vs. Office-using jobs (thousands)



● Office-Using Jobs, Excluding High-Tech (L)
● High-Tech Software/Service Jobs (R)

Source: U.S. Bureau of Labor Statistics, CBRE Research Q2 2023.

Venture Capital Funding by Industry H1 2023



● Tech Funding
● Remaining Funding

Source: CB Insights and CBRE Research, Q2 2023.

High-tech software/services job and office rent growth

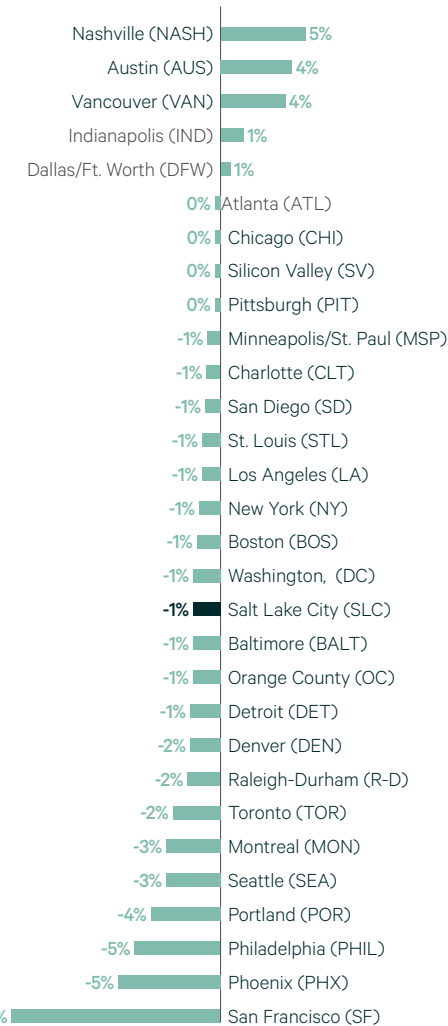
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		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
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7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
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9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
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27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
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Ranked by high-tech job growth rate.

Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth

Overall market, past two years (Q3 2021-Q2 2023)

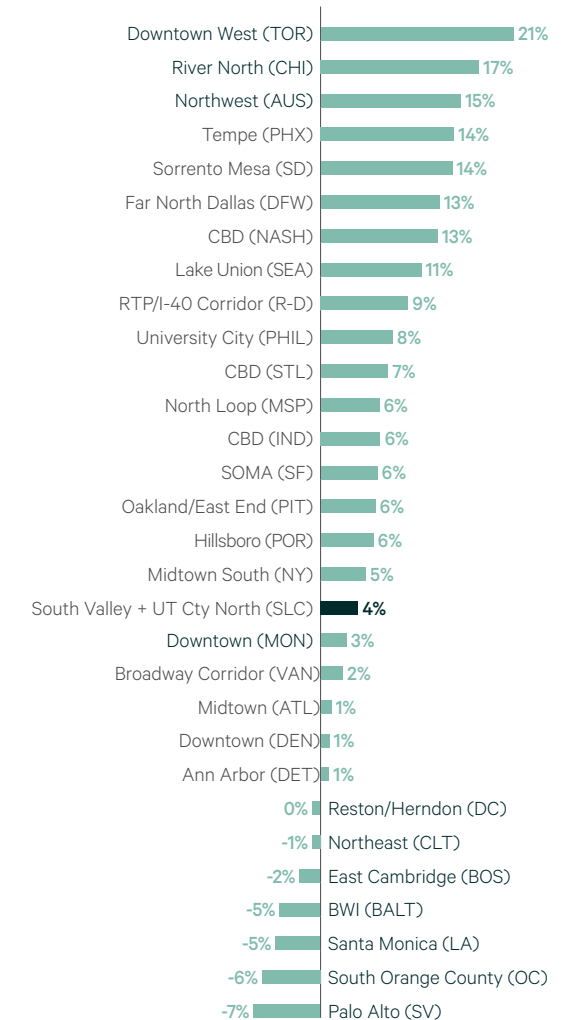


Net absorption as a % of total building stock

Source: CBRE Research, Q2 2023.

Rent growth

Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

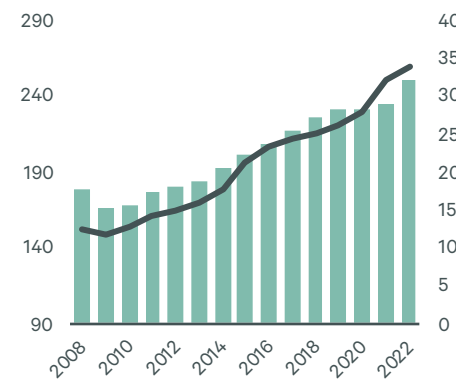
05 Charlotte

Quick Stats

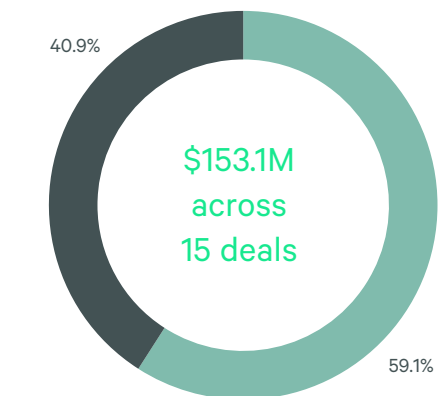
Office market stats Q2 2023		High-tech industry stats, 2022	
Average Asking Rent Direct FS/YR	\$33.18	Employment High-Tech Software/Services	33,985
Vacancy Rate	21.2%	Employment Clustering % of Office-Using Jobs	11.9%
Supply		Educational Attainment Residents w/ BA or higher	39.3%
Under Construction	2.3 MSF	Labor Cost (MSA) Software Engineer	\$118,669
Sublease Available	3.1 MSF		
Top Tech Submarket Northeast			
Rents/Vacancy	\$26.59 / 26.9%		

Source: CBRE Research, Q2 2023.

High-tech software/services vs. Office-using jobs (thousands)



Venture Capital Funding by Industry H1 2023



Source: U.S. Bureau of Labor Statistics, CBRE Research Q2 2023.

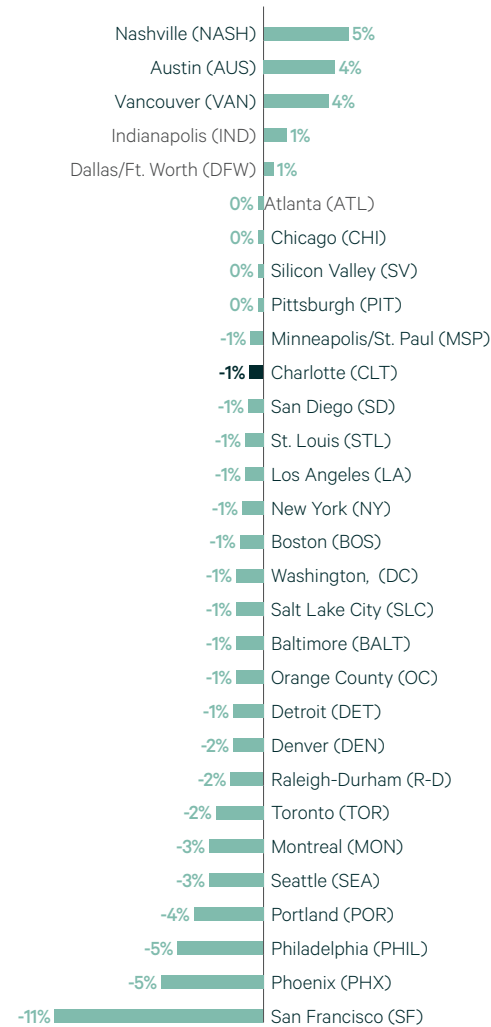
Source: CB Insights and CBRE Research, Q2 2023.

High-tech software/services job and office rent growth

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5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

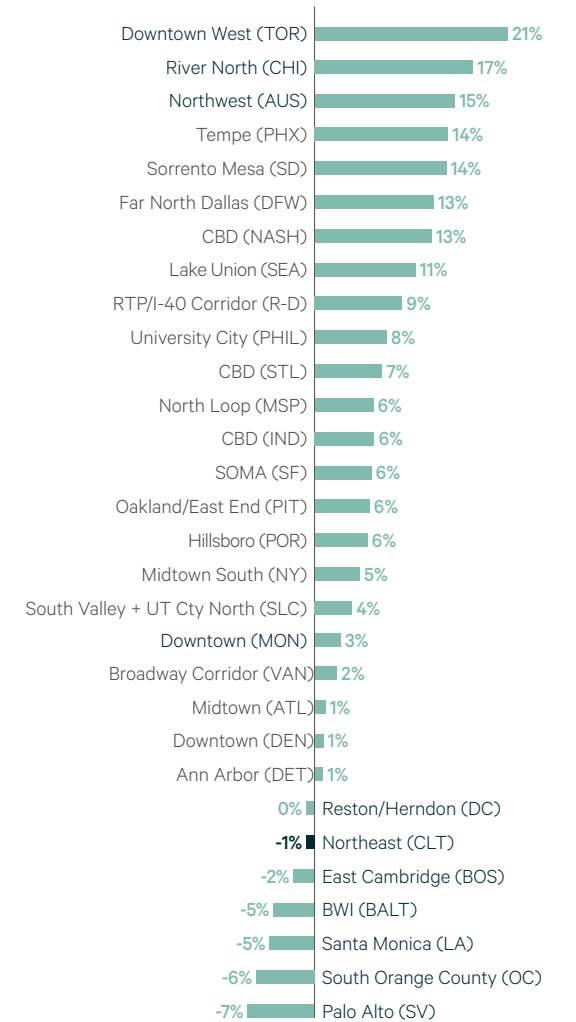
Ranked by high-tech job growth rate.
Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth Overall market, past two years (Q3 2021-Q2 2023)



Net absorption as a % of total building stock
Source: CBRE Research, Q2 2023.

Rent growth Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

06 New York

Quick Stats

Office market stats Q2 2023

Average Asking Rent Direct FS/YR	\$77.22
Vacancy Rate	15.6%
Supply	
Under Construction	4.8 MSF
Sublease Available	21.5 MSF
Top Tech Submarket	Midtown South
Rents/Vacancy	\$82.85 / 17.2%

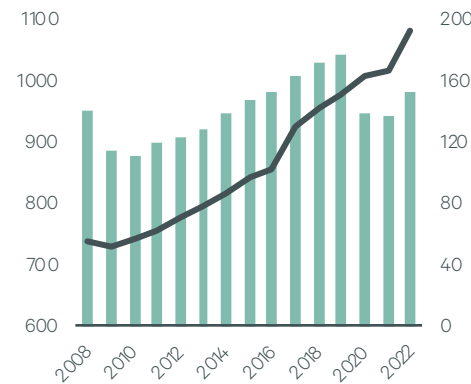
Source: CBRE Research, Q2 2023.

High-tech industry stats, 2022

Employment	191,556
High-Tech Software/Services	
Employment Clustering	16.3%
% of Office-Using Jobs	
Educational Attainment	43.6%
Residents w/ BA or higher	
Labor Cost (MSA)	\$132,597
Software Engineer	

Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.

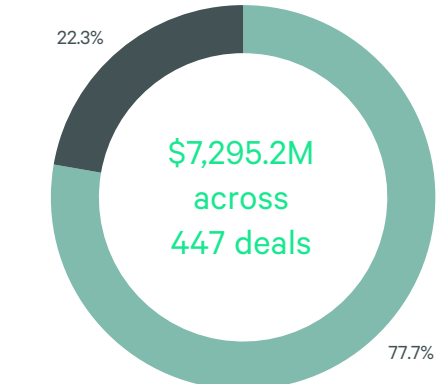
High-tech software/services vs. Office-using jobs (thousands)



● Office-Using Jobs, Excluding High-Tech (L)
● High-Tech Software/Service Jobs (R)

Source: U.S. Bureau of Labor Statistics, CBRE Research Q2 2023.

Venture Capital Funding by Industry H1 2023



● Tech Funding
● Remaining Funding

Source: CB Insights and CBRE Research, Q2 2023.

High-tech software/services job and office rent growth

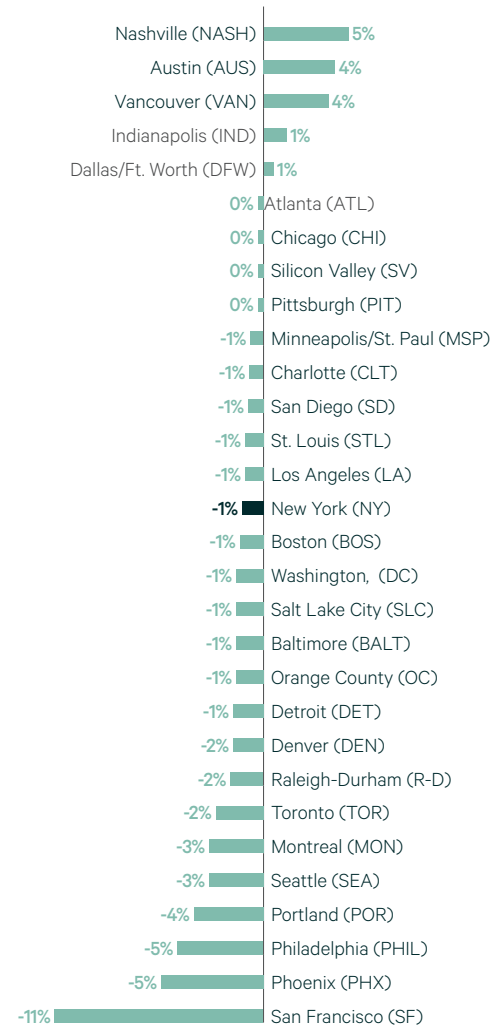
Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
1	Vancouver	26.3%	36.3%	15.3%	13.3%
2	Austin	26.1%	25.8%	15.0%	10.8%
3	Denver	23.7%	16.4%	3.1%	9.6%
4	Salt Lake City	22.9%	13.0%	5.5%	5.4%
5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

Ranked by high-tech job growth rate.

Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth

Overall market, past two years (Q3 2021-Q2 2023)

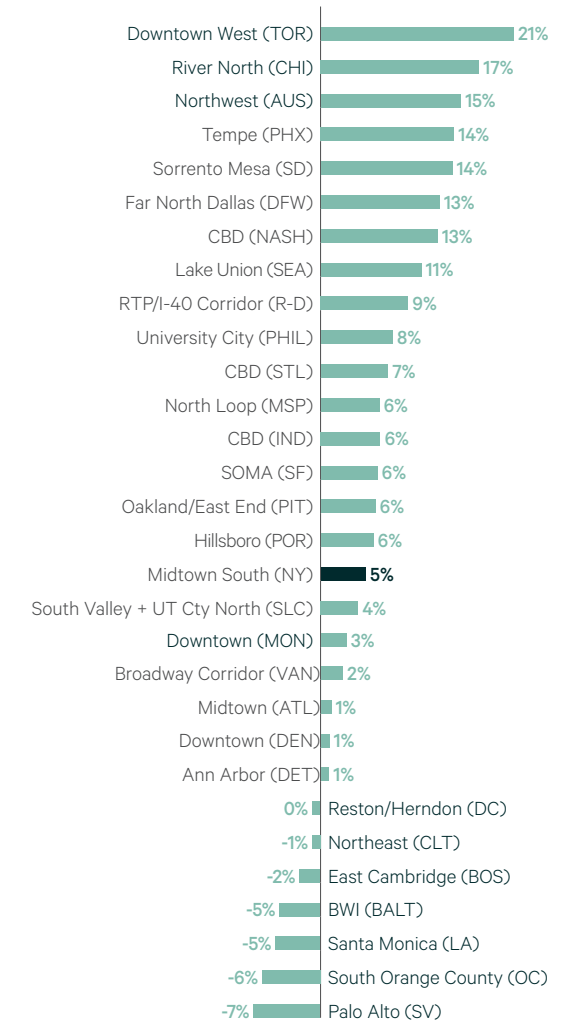


Net absorption as a % of total building stock

Source: CBRE Research, Q2 2023.

Rent growth

Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

07 Raleigh-Durham

Quick Stats

Office market stats Q2 2023

Average Asking Rent Direct FS/YR	\$30.95
Vacancy Rate	18.1%
Supply	
Under Construction	2.2 MSF
Sublease Available	4.4 MSF
Top Tech Submarket	RTP/I-40 Corridor
Rents/Vacancy	\$27.95 / 21.6%

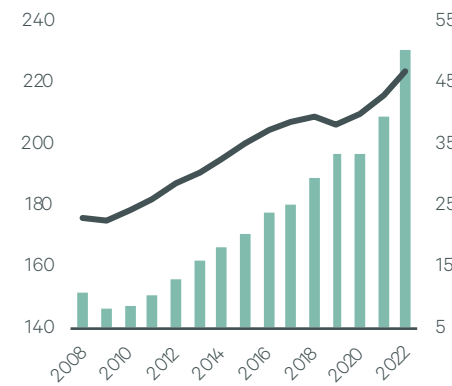
Source: CBRE Research, Q2 2023.

High-tech industry stats, 2022

Employment	46,730
High-Tech Software/Services	
Employment Clustering	16.9%
% of Office-Using Jobs	
Educational Attainment	50.7%
Residents w/ BA or higher	
Labor Cost (MSA)	\$122,662
Software Engineer	

Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.

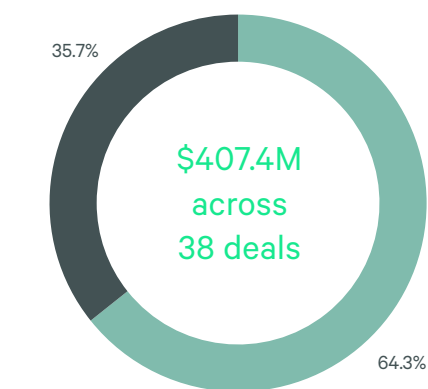
High-tech software/services vs. Office-using jobs (thousands)



● Office-Using Jobs, Excluding High-Tech (L)
● High-Tech Software/Service Jobs (R)

Source: U.S. Bureau of Labor Statistics, CBRE Research Q2 2023.

Venture Capital Funding by Industry H1 2023



● Tech Funding
● Remaining Funding

Source: CB Insights and CBRE Research, Q2 2023.

High-tech software/services job and office rent growth

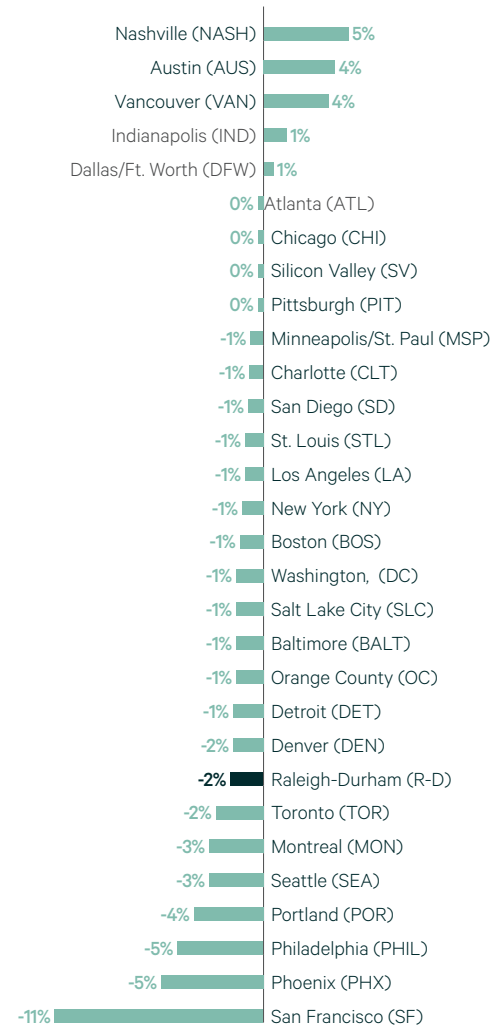
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7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
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19	Montreal	3.6%	11.6%	8.4%	10.2%
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28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

Ranked by high-tech job growth rate.

Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth

Overall market, past two years (Q3 2021-Q2 2023)

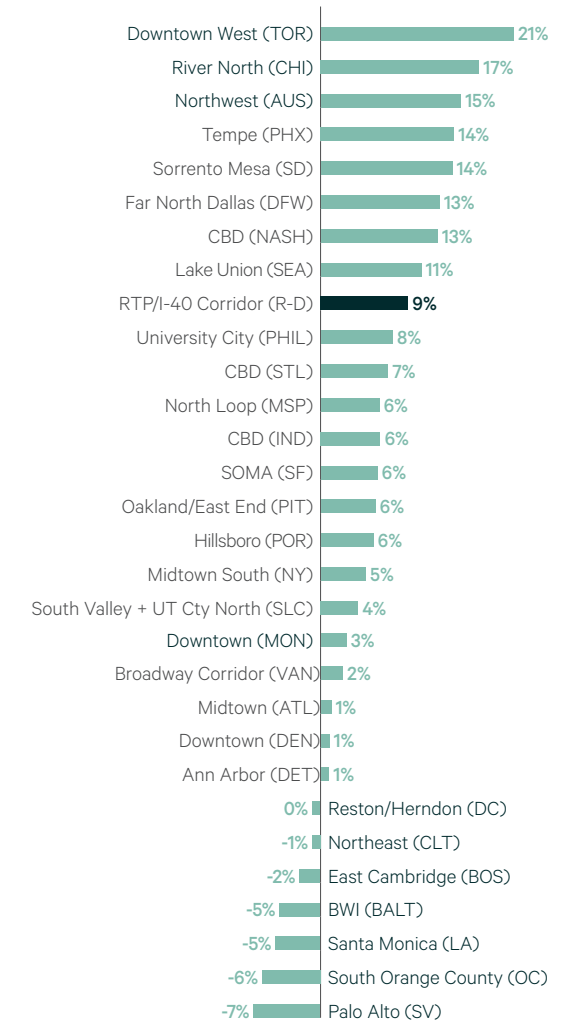


Net absorption as a % of total building stock

Source: CBRE Research, Q2 2023.

Rent growth

Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

08 Nashville

Quick Stats

Office market stats Q2 2023

Average Asking Rent Direct FS/YR	\$31.67
Vacancy Rate	19.3%
Supply	
Under Construction	1.7 MSF
Sublease Available	2.4 MSF
Top Tech Submarket	CBD
Rents/Vacancy	\$36.98 / 20.0%

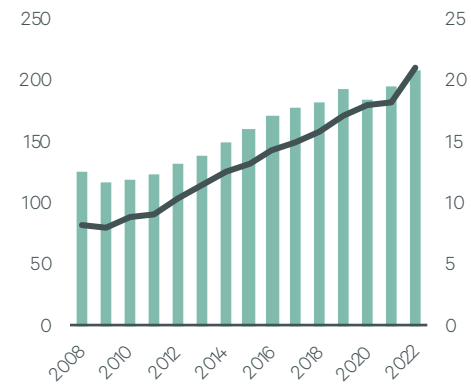
Source: CBRE Research, Q2 2023.

High-tech industry stats, 2022

Employment	21,105
High-Tech Software/Services	
Employment Clustering	9.2%
% of Office-Using Jobs	
Educational Attainment	40.2%
Residents w/ BA or higher	
Labor Cost (MSA)	\$100,639
Software Engineer	

Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.

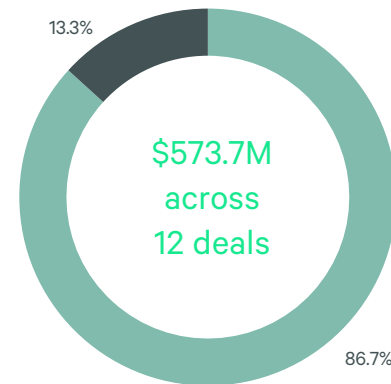
High-tech software/services vs. Office-using jobs (thousands)



● Office-Using Jobs, Excluding High-Tech (L)
● High-Tech Software/Service Jobs (R)

Source: U.S. Bureau of Labor Statistics, CBRE Research Q2 2023.

Venture Capital Funding by Industry H1 2023



● Tech Funding
● Remaining Funding

Source: CB Insights and CBRE Research, Q2 2023.

High-tech software/services job and office rent growth

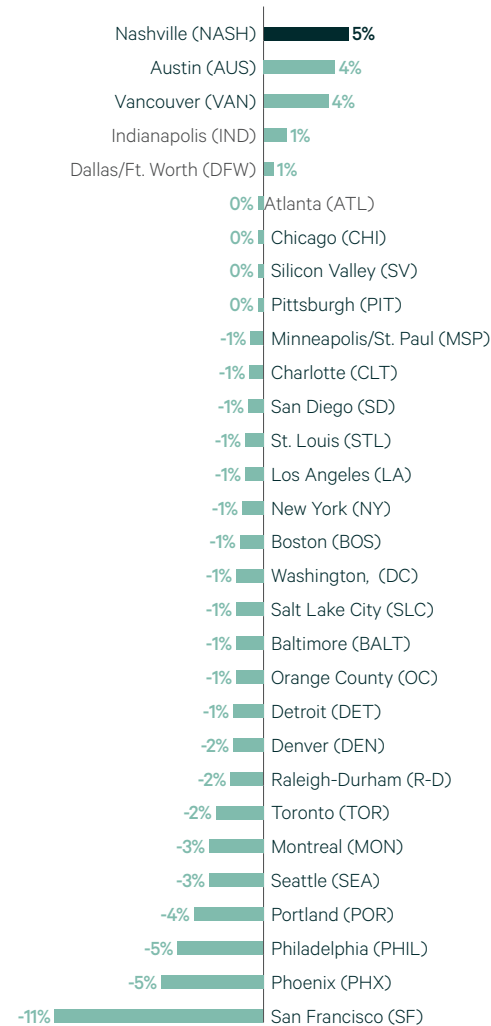
Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
1	Vancouver	26.3%	36.3%	15.3%	13.3%
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5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

Ranked by high-tech job growth rate.

Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth

Overall market, past two years (Q3 2021-Q2 2023)

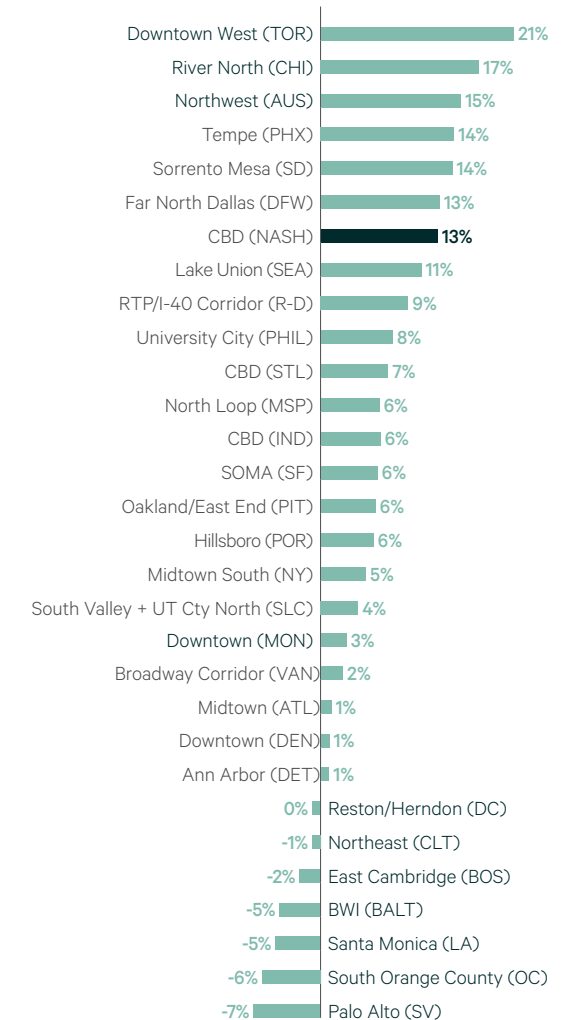


Net absorption as a % of total building stock

Source: CBRE Research, Q2 2023.

Rent growth

Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

09 San Francisco

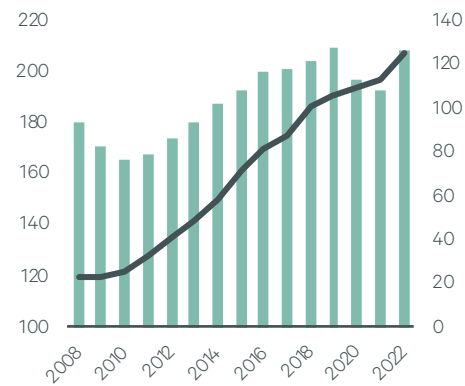
Quick Stats

Office market stats Q2 2023		High-tech industry stats, 2022	
Average Asking Rent Direct FS/YR	\$73.59	Employment High-Tech Software/Services	124,717
Vacancy Rate	31.6%	Employment Clustering % of Office-Using Jobs	37.5%
Supply		Educational Attainment Residents w/ BA or higher	0.5%
Under Construction	0.9 MSF	Labor Cost (MSA) Software Engineer	\$165,887
Sublease Available	10.0 MSF		
Top Tech Submarket SOMA			
Rents/Vacancy	\$69.88 / 42.5%		

Source: CBRE Research, Q2 2023.

Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.

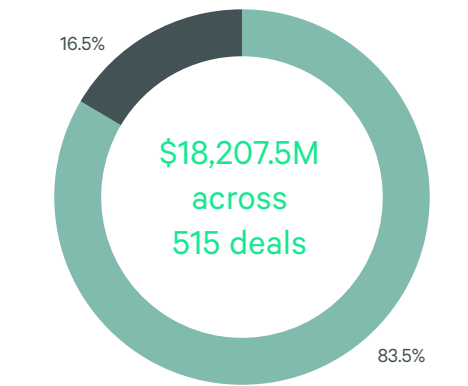
High-tech software/services vs. Office-using jobs (thousands)



● Office-Using Jobs, Excluding High-Tech (L)
● High-Tech Software/Service Jobs (R)

Source: U.S. Bureau of Labor Statistics, CBRE Research Q2 2023.

Venture Capital Funding by Industry H1 2023



● Tech Funding
● Remaining Funding

Source: CB Insights and CBRE Research, Q2 2023.

High-tech software/services job and office rent growth

Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
1	Vancouver	26.3%	36.3%	15.3%	13.3%
2	Austin	26.1%	25.8%	15.0%	10.8%
3	Denver	23.7%	16.4%	3.1%	9.6%
4	Salt Lake City	22.9%	13.0%	5.5%	5.4%
5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

Ranked by high-tech job growth rate.
Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth

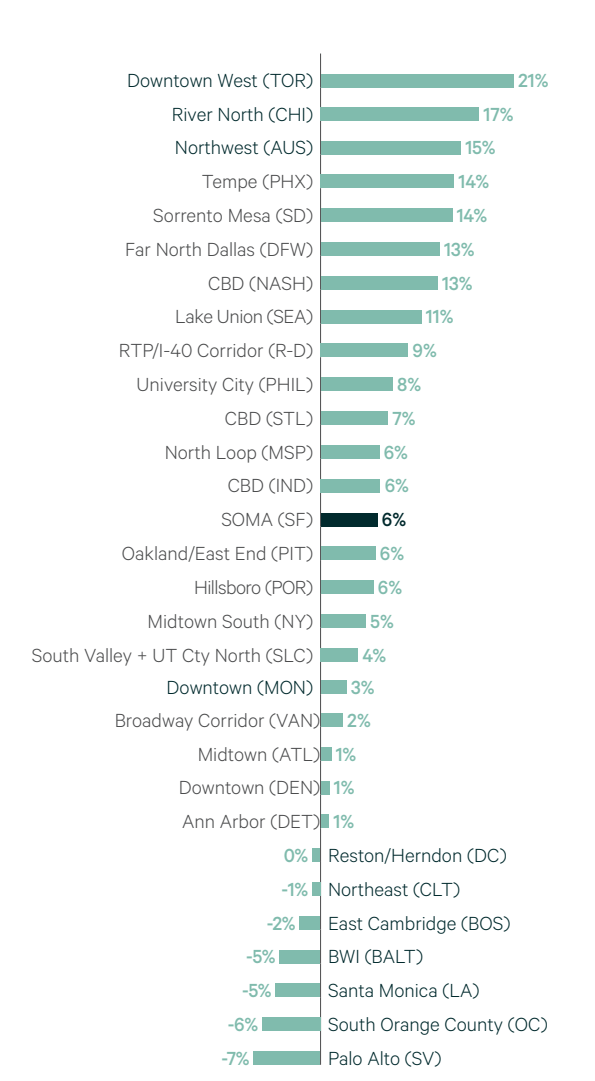
Overall market, past two years (Q3 2021-Q2 2023)



Net absorption as a % of total building stock
Source: CBRE Research, Q2 2023.

Rent growth

Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

10 Phoenix

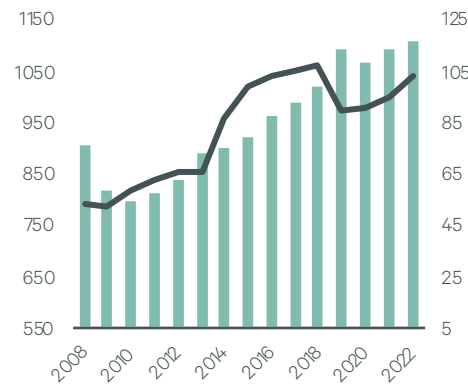
Quick Stats

Office market stats Q2 2023		High-tech industry stats, 2022	
Average Asking Rent Direct FS/YR	\$30.94	Employment High-Tech Software/Services	103,176
Vacancy Rate	24.6%	Employment Clustering % of Office-Using Jobs	8.5%
Supply		Educational Attainment Residents w/ BA or higher	34.6%
Under Construction	0.7 MSF	Labor Cost (MSA) Software Engineer	\$111,351
Sublease Available	6.8 MSF		
Top Tech Submarket	Tempe		
Rents/Vacancy	\$39.62 / 23.8%		

Source: CBRE Research, Q2 2023.

Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.

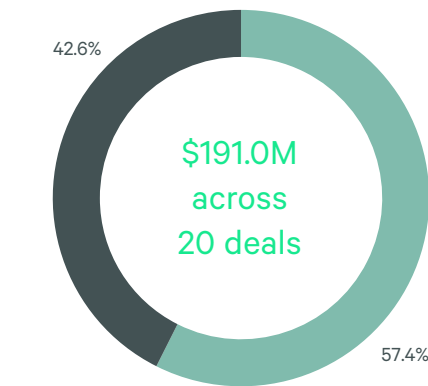
High-tech software/services vs. Office-using jobs (thousands)



● Office-Using Jobs, Excluding High-Tech (L)
● High-Tech Software/Service Jobs (R)

Source: U.S. Bureau of Labor Statistics, CBRE Research Q2 2023.

Venture Capital Funding by Industry H1 2023



● Tech Funding
● Remaining Funding

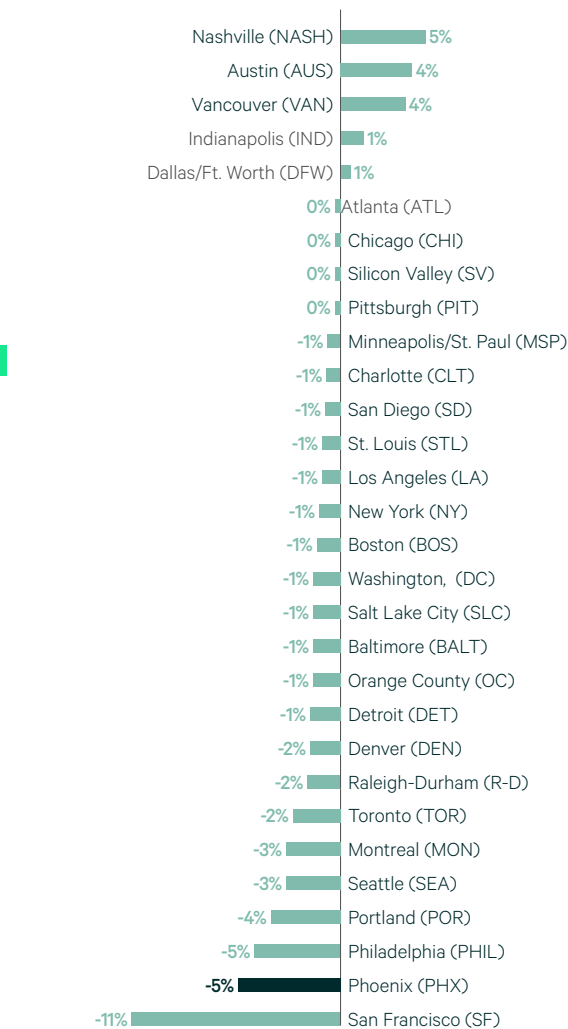
Source: CB Insights and CBRE Research, Q2 2023.

High-tech software/services job and office rent growth

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9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
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28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

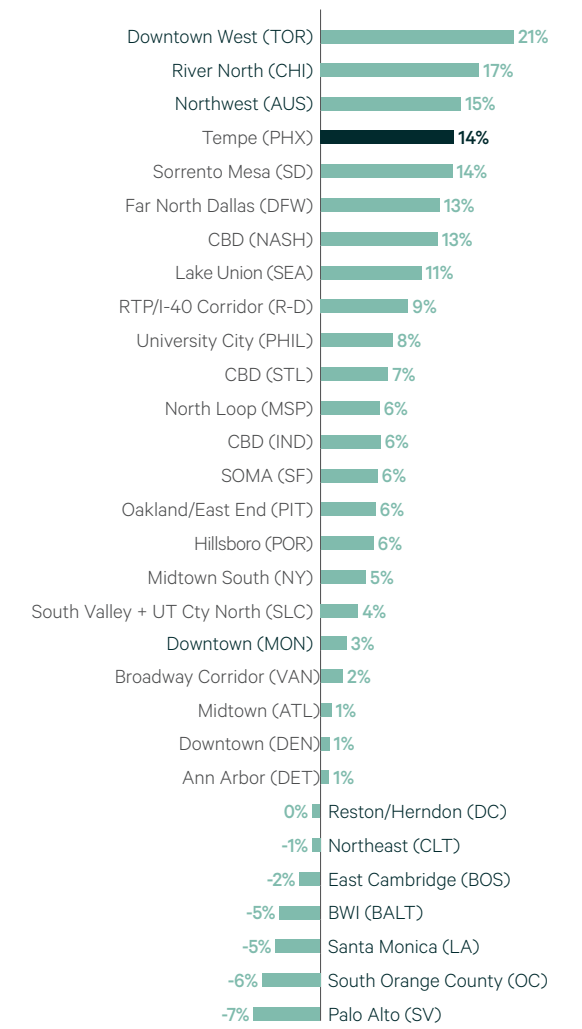
Ranked by high-tech job growth rate.
Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth Overall market, past two years (Q3 2021-Q2 2023)



Net absorption as a % of total building stock
Source: CBRE Research, Q2 2023.

Rent growth Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

11 Seattle

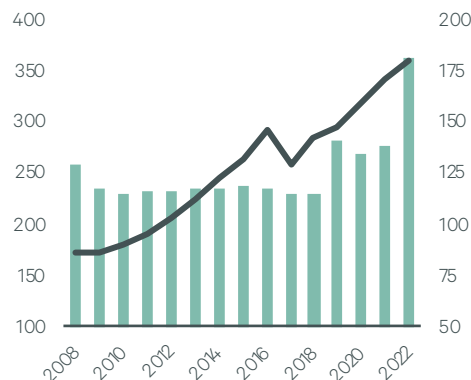
Quick Stats

Office market stats Q2 2023		High-tech industry stats, 2022	
Average Asking Rent Direct FS/YR	\$46.56	Employment High-Tech Software/Services	179,552
Vacancy Rate	20.7%	Employment Clustering % of Office-Using Jobs	33.2%
Supply		Educational Attainment Residents w/ BA or higher	46.8%
Under Construction	6.3 MSF	Labor Cost (MSA) Software Engineer	\$145,590
Sublease Available	8.1 MSF		
Top Tech Submarket	Lake Union		
Rents/Vacancy	\$57.03 / 12.5%		

Source: CBRE Research, Q2 2023.

Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.

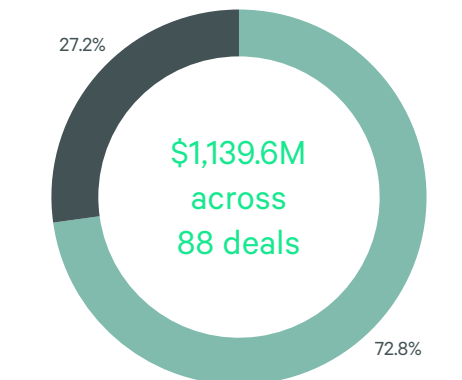
High-tech software/services vs. Office-using jobs (thousands)



● Office-Using Jobs, Excluding High-Tech (L)
● High-Tech Software/Service Jobs (R)

Source: U.S. Bureau of Labor Statistics, CBRE Research Q2 2023.

Venture Capital Funding by Industry H1 2023



● Tech Funding
● Remaining Funding

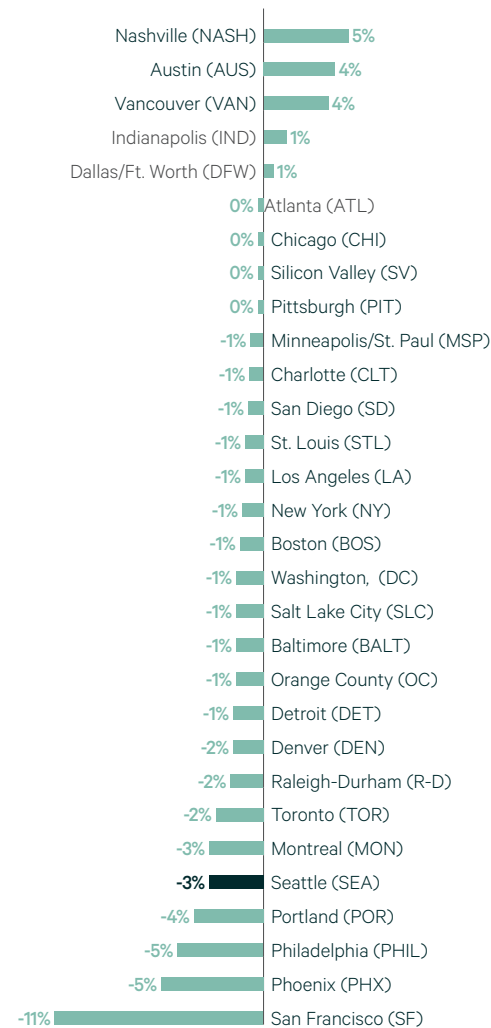
Source: CB Insights and CBRE Research, Q2 2023.

High-tech software/services job and office rent growth

Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
1	Vancouver	26.3%	36.3%	15.3%	13.3%
2	Austin	26.1%	25.8%	15.0%	10.8%
3	Denver	23.7%	16.4%	3.1%	9.6%
4	Salt Lake City	22.9%	13.0%	5.5%	5.4%
5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

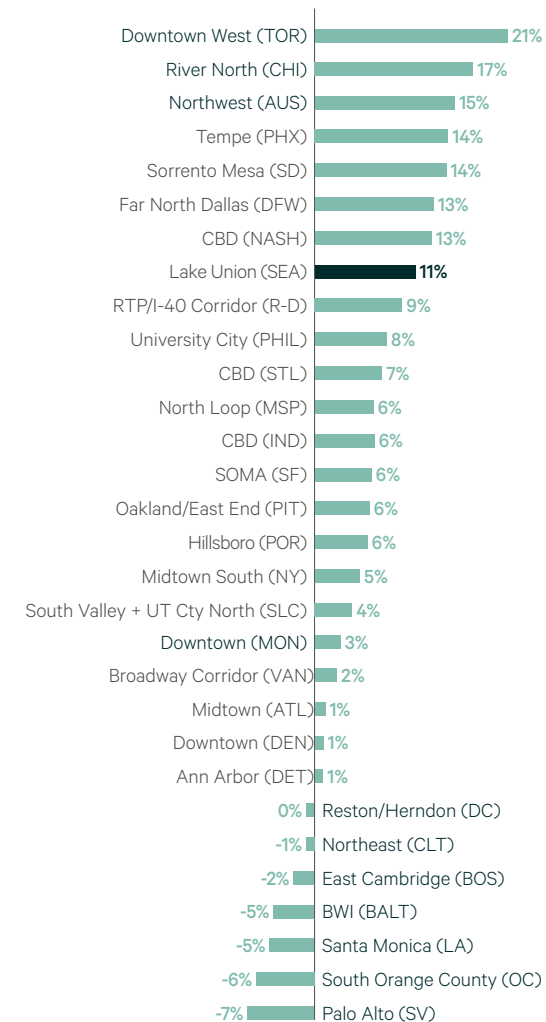
Ranked by high-tech job growth rate.
Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth Overall market, past two years (Q3 2021-Q2 2023)



Net absorption as a % of total building stock
Source: CBRE Research, Q2 2023.

Rent growth Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

12 Dallas/Ft. Worth

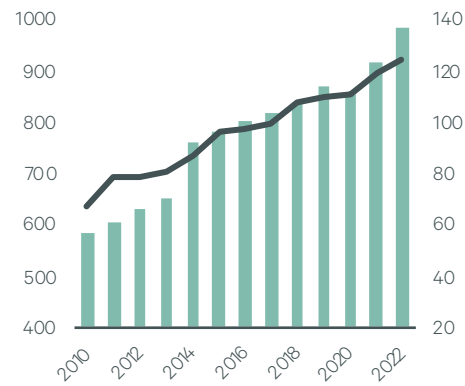
Quick Stats

Office market stats Q2 2023		High-tech industry stats, 2022	
Average Asking Rent Direct FS/YR	\$31.51	Employment High-Tech Software/Services	124,438
Vacancy Rate	24.6%	Employment Clustering % of Office-Using Jobs	11.2%
Supply		Educational Attainment Residents w/ BA or higher	38.3%
Under Construction	4.8 MSF	Labor Cost (MSA) Software Engineer	\$110,532
Sublease Available	10.0 MSF		
Top Tech Submarket	Far North Dallas		
Rents/Vacancy	\$33.63 / 28.0%		

Source: CBRE Research, Q2 2023.

Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.

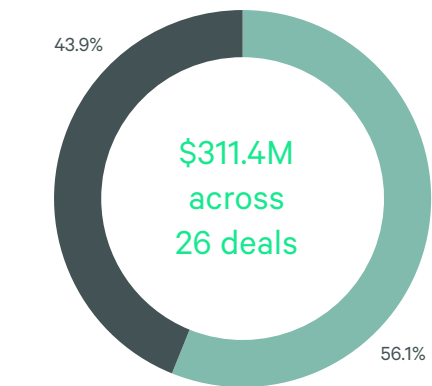
High-tech software/services vs. Office-using jobs (thousands)



● Office-Using Jobs, Excluding High-Tech (L)
● High-Tech Software/Service Jobs (R)

Source: U.S. Bureau of Labor Statistics, CBRE Research Q2 2023.

Venture Capital Funding by Industry H1 2023



● Tech Funding
● Remaining Funding

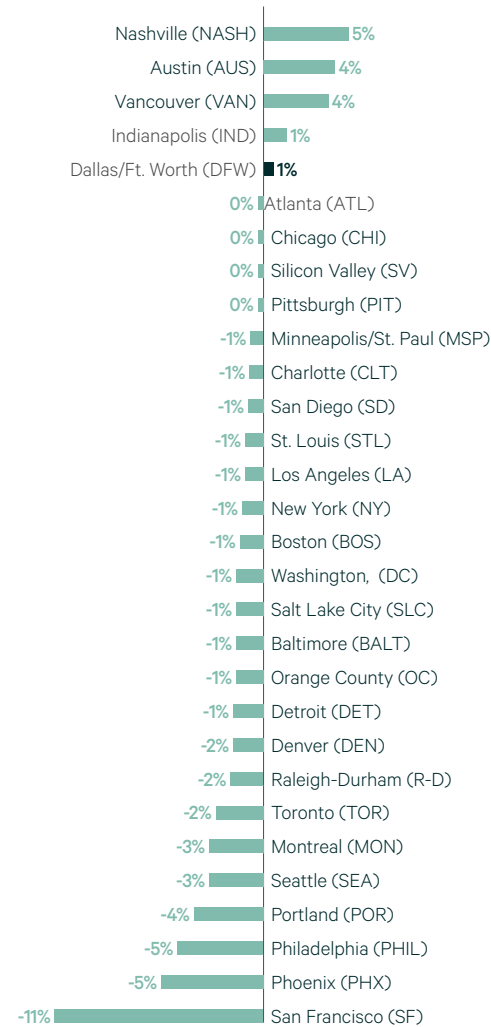
Source: CB Insights and CBRE Research, Q2 2023.

High-tech software/services job and office rent growth

Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
1	Vancouver	26.3%	36.3%	15.3%	13.3%
2	Austin (AUS)	26.1%	25.8%	15.0%	10.8%
3	Denver	23.7%	16.4%	3.1%	9.6%
4	Salt Lake City	22.9%	13.0%	5.5%	5.4%
5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

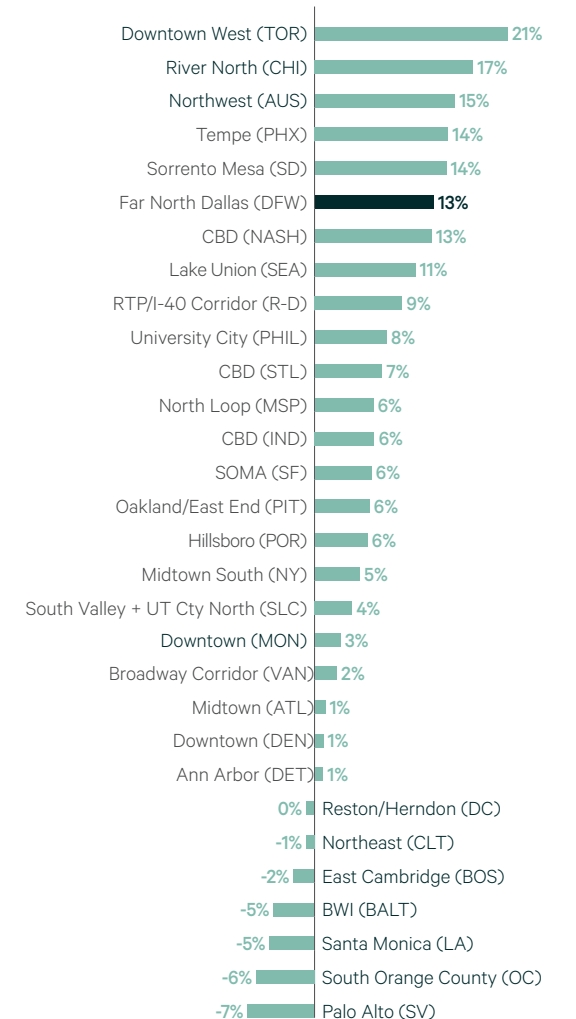
Ranked by high-tech job growth rate.
Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth Overall market, past two years (Q3 2021-Q2 2023)



Net absorption as a % of total building stock
Source: CBRE Research, Q2 2023.

Rent growth Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

13 Toronto

Quick Stats

Office market stats Q2 2023

Average Asking Rent* Direct FS/YR	\$48.88
Vacancy Rate	18.0%
Supply	
Under Construction	6.3 MSF
Sublease Available	7.9 MSF
Top Tech Submarket	Downtown West
Rents/Vacancy*	\$59.70 / 24.0%

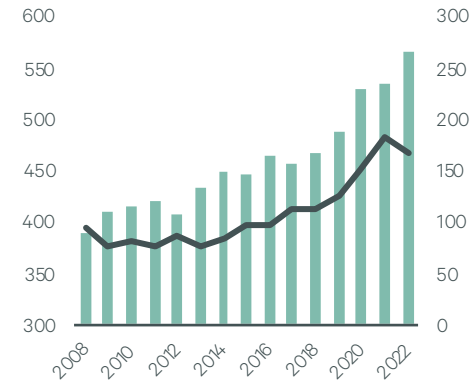
*Rent and Wages in C\$.
Source: CBRE Research, Q2 2023.

High-tech industry stats, 2022

Employment	167,500
High-Tech Software/Services	
Employment Clustering	22.8%
% of Office-Using Jobs	
Educational Attainment	44.6%
Residents w/ BA or higher	
Labor Cost (MSA)*	\$105,581
Software Engineer	

Source: Statistics Canada, CBRE Research, Q2 2023.

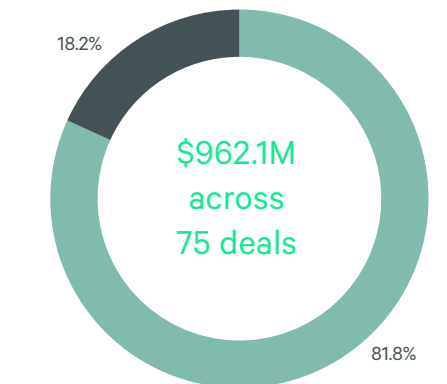
High-tech software/services vs. Office-using jobs (thousands)



● Office-Using Jobs, Excluding High-Tech (L)
● High-Tech Software/Service Jobs (R)

Source: Statistics Canada, CBRE Research Q2 2023

Venture Capital Funding by Industry H1 2023



● Tech Funding
● Remaining Funding

Source: CB Insights and CBRE Research, Q2 2023.

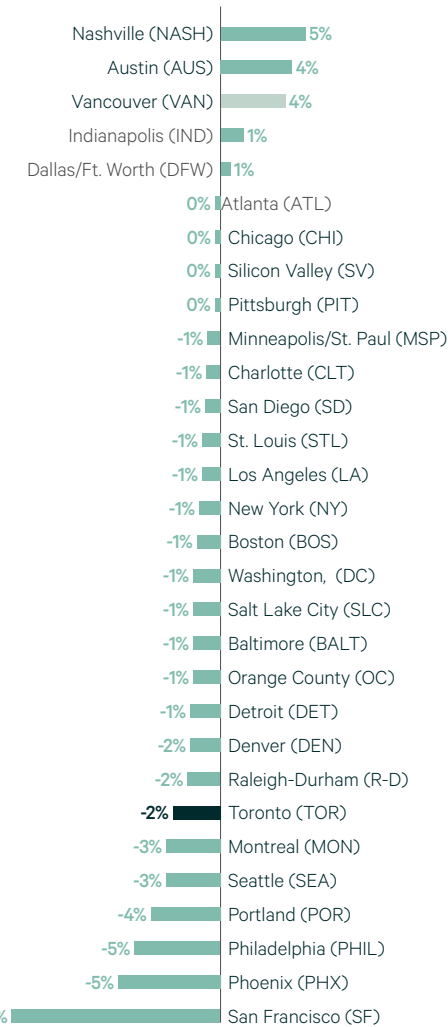
High-tech software/services job and office rent growth

Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
1	Vancouver	26.3%	36.3%	15.3%	13.3%
2	Austin	26.1%	25.8%	15.0%	10.8%
3	Denver	23.7%	16.4%	3.1%	9.6%
4	Salt Lake City	22.9%	13.0%	5.5%	5.4%
5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

Ranked by high-tech job growth rate.
Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth

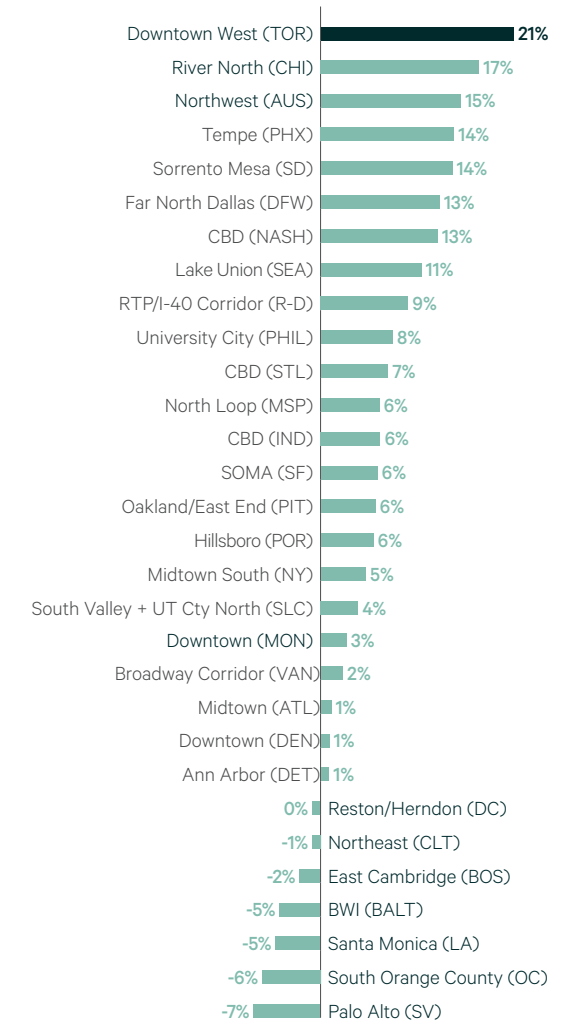
Overall market, past two years (Q3 2021-Q2 2023)



Net absorption as a % of total building stock
Source: CBRE Research, Q2 2023.

Rent growth

Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

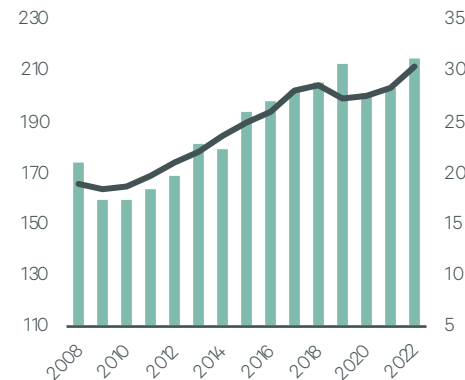
14 Portland

Quick Stats

Office market stats Q2 2023		High-tech industry stats, 2022	
Average Asking Rent Direct FS/YR	\$32.23	Employment High-Tech Software/Services	30,279
Vacancy Rate	22.2%	Employment Clustering % of Office-Using Jobs	12.4%
Supply		Educational Attainment Residents w/ BA or higher	
Under Construction	0.5 MSF		42.2%
Sublease Available	2.7 MSF	Labor Cost (MSA) Software Engineer	
			\$110,342
Top Tech Submarket Hillsboro		Rents/Vacancy \$24.84 / 21.9%	

Source: CBRE Research, Q2 2023. Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.

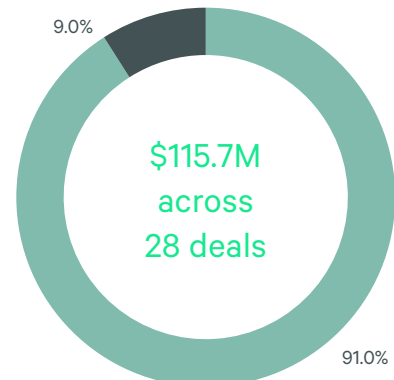
High-tech software/services vs. Office-using jobs (thousands)



● Office-Using Jobs, Excluding High-Tech (L)
● High-Tech Software/Service Jobs (R)

Source: U.S. Bureau of Labor Statistics, CBRE Research Q2 2023.

Venture Capital Funding by Industry H1 2023



● Tech Funding
● Remaining Funding

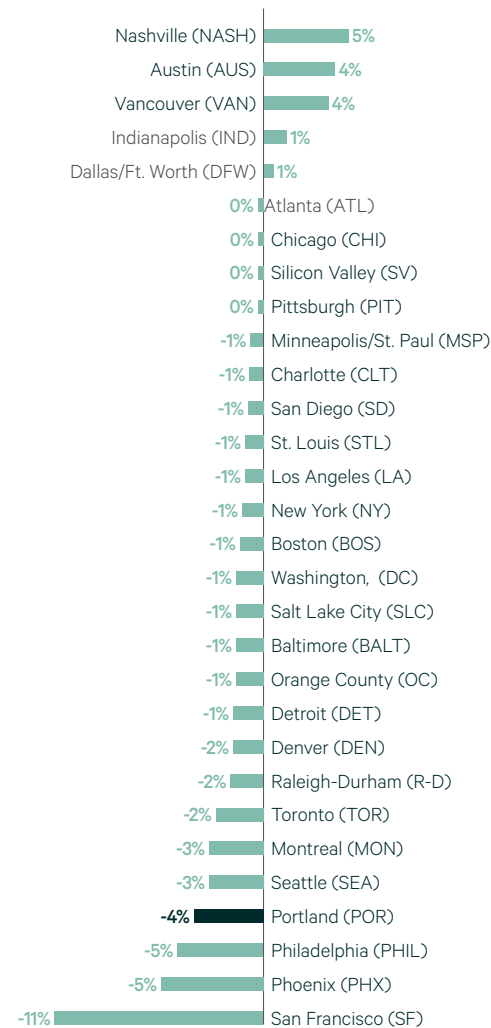
Source: CB Insights and CBRE Research, Q2 2023.

High-tech software/services job and office rent growth

Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
1	Vancouver	26.3%	36.3%	15.3%	13.3%
2	Austin	26.1%	25.8%	15.0%	10.8%
3	Denver	23.7%	16.4%	3.1%	9.6%
4	Salt Lake City	22.9%	13.0%	5.5%	5.4%
5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	34%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
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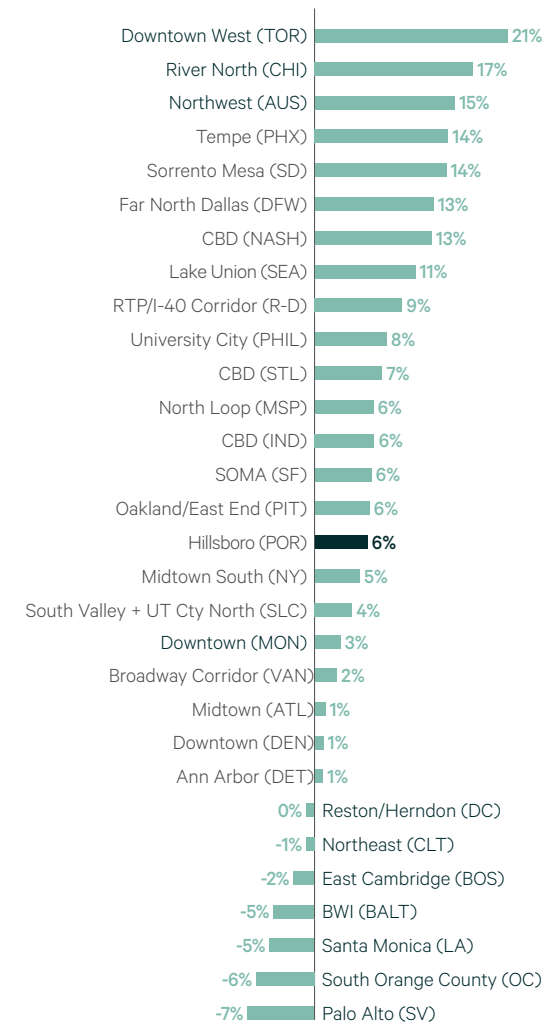
Ranked by high-tech job growth rate. Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth Overall market, past two years (Q3 2021-Q2 2023)



Net absorption as a % of total building stock. Source: CBRE Research, Q2 2023.

Rent growth Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

15 St. Louis

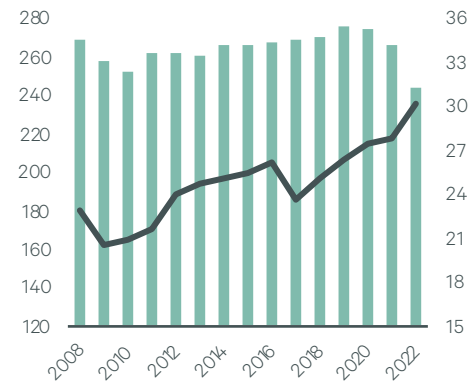
Quick Stats

Office market stats Q2 2023		High-tech industry stats, 2022	
Average Asking Rent Direct FS/YR	\$22.72	Employment High-Tech Software/Services	30,101
Vacancy Rate	15.2%	Employment Clustering % of Office-Using Jobs	11.0%
Supply		Educational Attainment Residents w/ BA or higher	37.1%
Under Construction	0.1 MSF	Labor Cost (MSA) Software Engineer	\$92,078
Sublease Available	2.3 MSF		
Top Tech Submarket CBD			
Rents/Vacancy	\$18.80 / 18.8%		

Source: CBRE Research, Q2 2023.

Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.

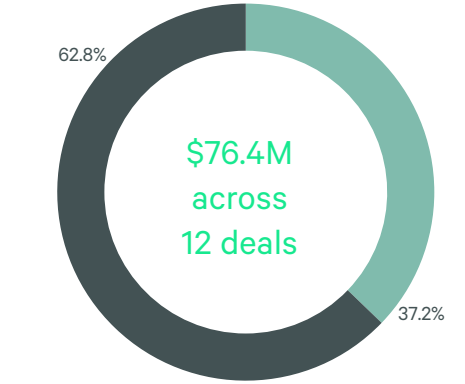
High-tech software/services vs. Office-using jobs (thousands)



● Office-Using Jobs, Excluding High-Tech (L)
● High-Tech Software/Service Jobs (R)

Source: U.S. Bureau of Labor Statistics, CBRE Research Q2 2023.

Venture Capital Funding by Industry H1 2023



● Tech Funding
● Remaining Funding

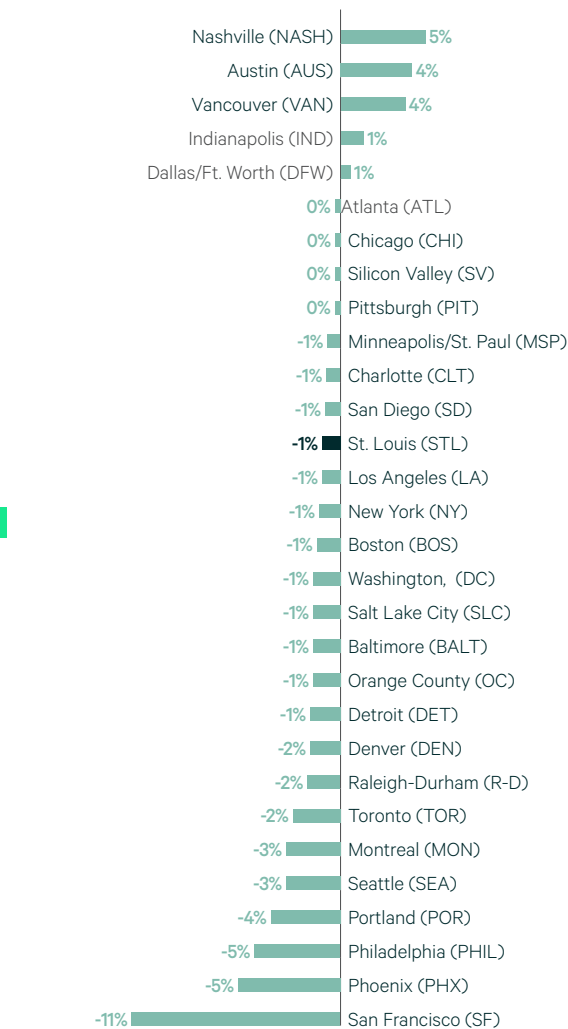
Source: CB Insights and CBRE Research, Q2 2023.

High-tech software/services job and office rent growth

Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
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4	Salt Lake City	22.9%	13.0%	5.5%	5.4%
5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

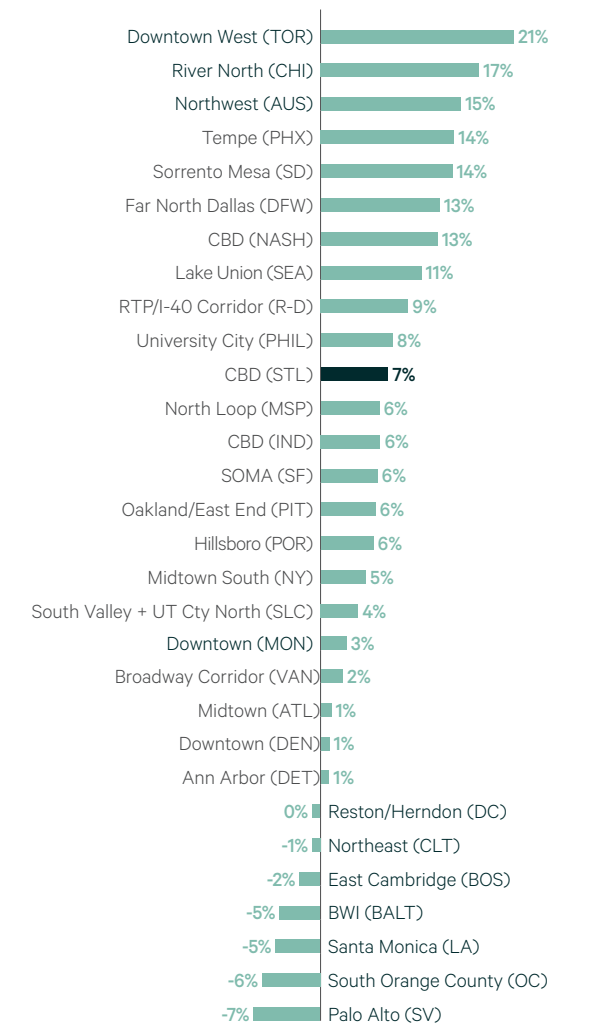
Ranked by high-tech job growth rate.
Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth Overall market, past two years (Q3 2021-Q2 2023)



Net absorption as a % of total building stock
Source: CBRE Research, Q2 2023.

Rent growth Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

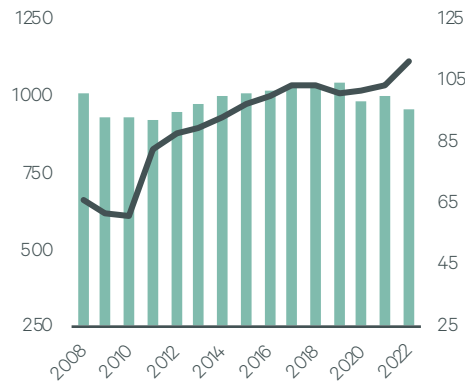
16 Chicago

Quick Stats

Office market stats Q2 2023		High-tech industry stats, 2022	
Average Asking Rent Direct FS/YR	\$35.80	Employment High-Tech Software/Services	110,763
Vacancy Rate	24.3%	Employment Clustering % of Office-Using Jobs	10.4%
Supply			
Under Construction	1.5 MSF	Educational Attainment Residents w/ BA or higher	40.6%
Sublease Available	12.2 MSF	Labor Cost (MSA) Software Engineer	\$107,067
Top Tech Submarket Rents/Vacancy		River North \$51.30 / 30.2%	

Source: CBRE Research, Q2 2023. Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.

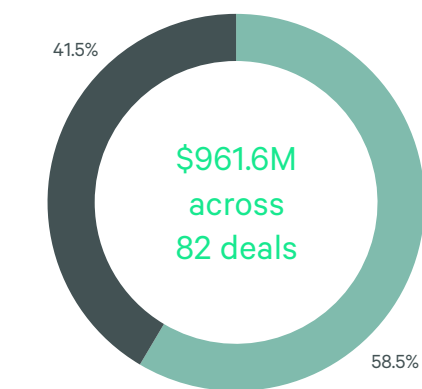
High-tech software/services vs. Office-using jobs (thousands)



● Office-Using Jobs, Excluding High-Tech (L)
● High-Tech Software/Service Jobs (R)

Source: U.S. Bureau of Labor Statistics, CBRE Research Q2 2023.

Venture Capital Funding by Industry H1 2023



● Tech Funding
● Remaining Funding

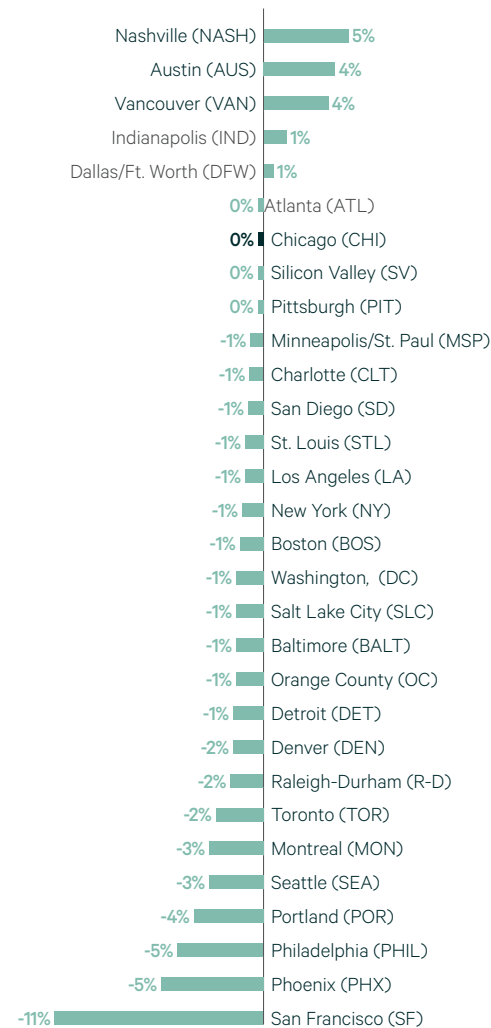
Source: CB Insights and CBRE Research, Q2 2023.

High-tech software/services job and office rent growth

Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
1	Vancouver	26.3%	36.3%	15.3%	13.3%
2	Austin	26.1%	25.8%	15.0%	10.8%
3	Denver	23.7%	16.4%	3.1%	9.6%
4	Salt Lake City	22.9%	13.0%	5.5%	5.4%
5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

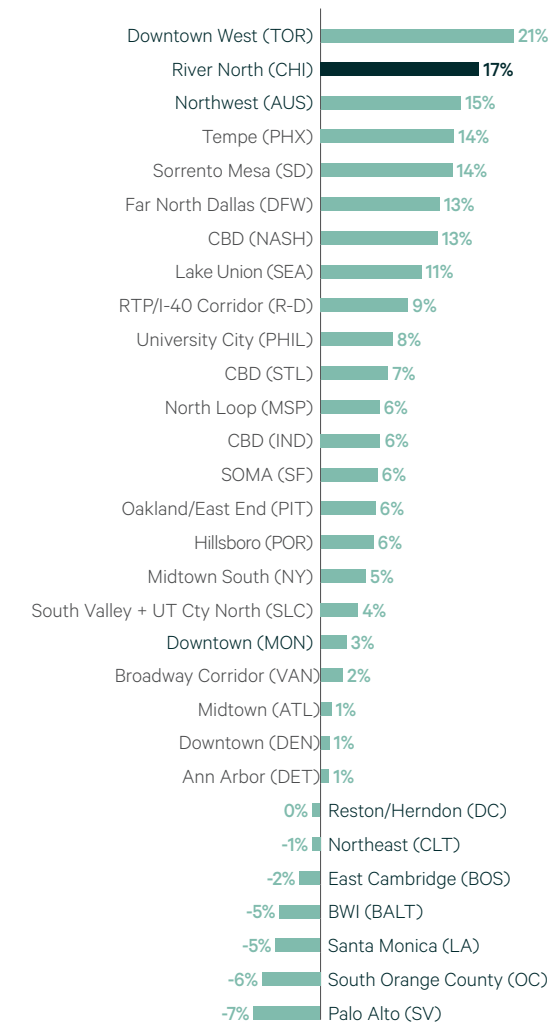
Ranked by high-tech job growth rate. Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth Overall market, past two years (Q3 2021-Q2 2023)



Net absorption as a % of total building stock. Source: CBRE Research, Q2 2023.

Rent growth Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

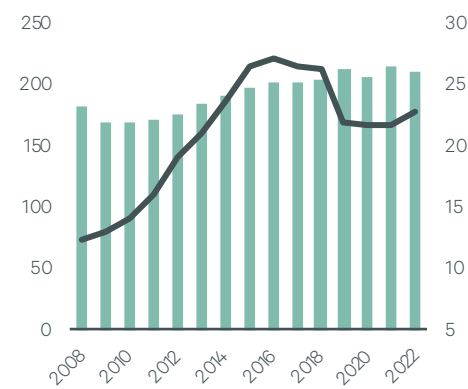
17 Indianapolis

Quick Stats

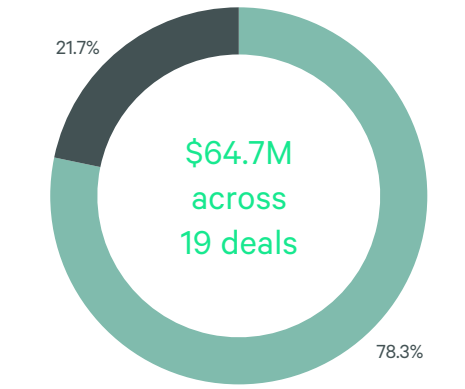
Office market stats Q2 2023		High-tech industry stats, 2022	
Average Asking Rent Direct FS/YR	\$22.05	Employment High-Tech Software/Services	22,861
Vacancy Rate	18.2%	Employment Clustering % of Office-Using Jobs	9.8%
Supply		Educational Attainment Residents w/ BA or higher	37.8%
Under Construction	0.4 MSF	Labor Cost (MSA) Software Engineer	\$93,191
Sublease Available	1.3 MSF		
Top Tech Submarket CBD			
Rents/Vacancy	\$24.47 / 16.5%		

Source: CBRE Research, Q2 2023. Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.

High-tech software/services vs. Office-using jobs (thousands)



Venture Capital Funding by Industry H1 2023



High-tech software/services job and office rent growth

Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
1	Vancouver	26.3%	36.3%	15.3%	13.3%
2	Austin	26.1%	25.8%	15.0%	10.8%
3	Denver	23.7%	16.4%	3.1%	9.6%
4	Salt Lake City	22.9%	13.0%	5.5%	5.4%
5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

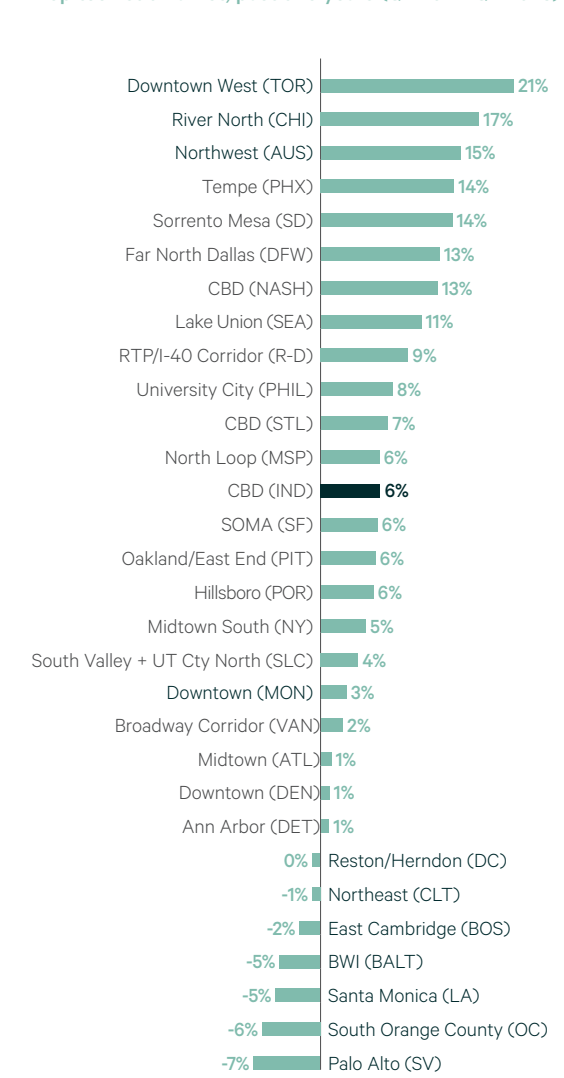
Ranked by high-tech job growth rate. Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth Overall market, past two years (Q3 2021-Q2 2023)



Net absorption as a % of total building stock. Source: CBRE Research, Q2 2023.

Rent growth Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

18 Atlanta

Quick Stats

Office market stats Q2 2023

Average Asking Rent Direct FS/YR	\$30.28
Vacancy Rate	23.9%
Supply	
Under Construction	3 MSF
Sublease Available	6.5 MSF
Top Tech Submarket	Midtown
Rents/Vacancy	\$38.48 / 23.0%

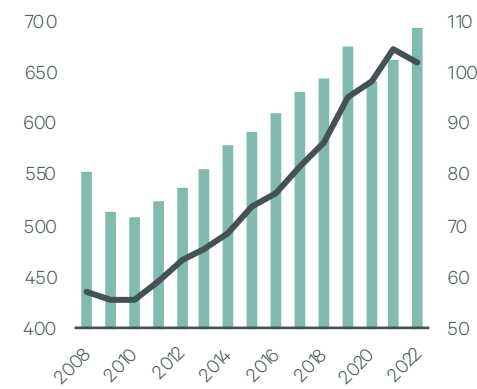
Source: CBRE Research, Q2 2023.

High-tech industry stats, 2022

Employment	101,684
High-Tech Software/Services	
Employment Clustering	12.8%
% of Office-Using Jobs	
Educational Attainment	42.2%
Residents w/ BA or higher	
Labor Cost (MSA)	\$115,968
Software Engineer	

Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.

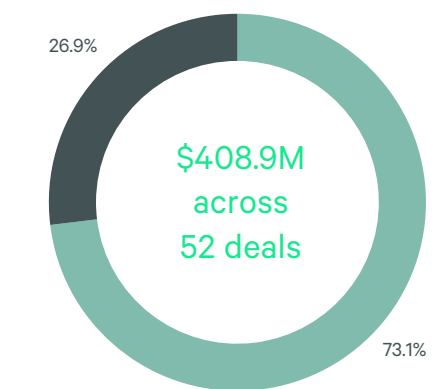
High-tech software/services vs. Office-using jobs (thousands)



● Office-Using Jobs, Excluding High-Tech (L)
● High-Tech Software/Service Jobs (R)

Source: U.S. Bureau of Labor Statistics, CBRE Research Q2 2023.

Venture Capital Funding by Industry H1 2023



● Tech Funding
● Remaining Funding

Source: CB Insights and CBRE Research, Q2 2023.

High-tech software/services job and office rent growth

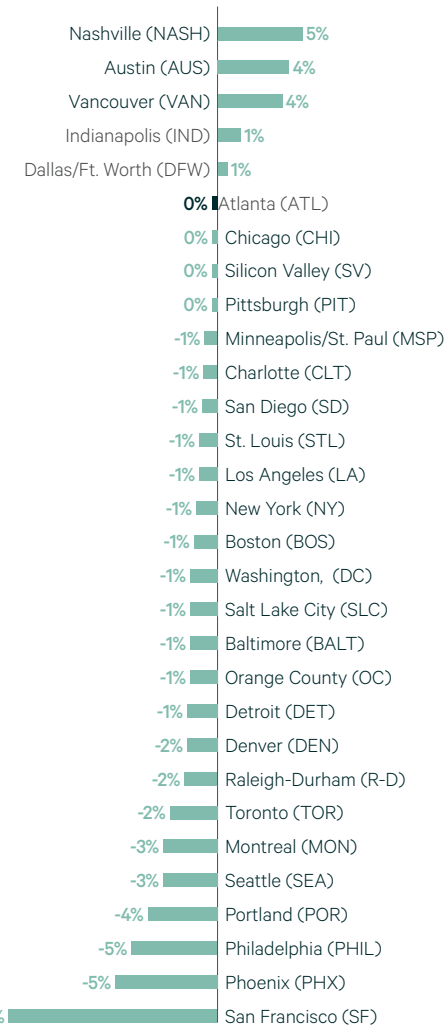
Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
1	Vancouver	26.3%	36.3%	15.3%	13.3%
2	Austin	26.1%	25.8%	15.0%	10.8%
3	Denver	23.7%	16.4%	3.1%	9.6%
4	Salt Lake City	22.9%	13.0%	5.5%	5.4%
5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

Ranked by high-tech job growth rate.

Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth

Overall market, past two years (Q3 2021-Q2 2023)

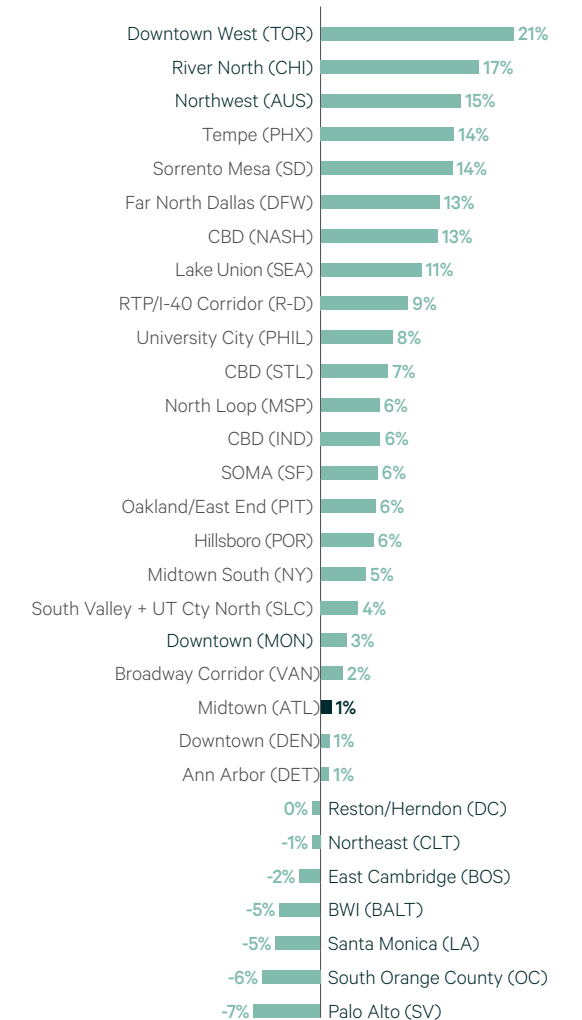


Net absorption as a % of total building stock

Source: CBRE Research, Q2 2023.

Rent growth

Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

19 Montreal

Quick Stats

Office market stats Q2 2023

Average Asking Rent* Direct FS/YR	\$37.90
Vacancy Rate	17.4%
Supply	
Under Construction	2 MSF
Sublease Available	2.2 MSF
Top Tech Submarket	Downtown
Rents/Vacancy*	\$43.71 / 17.0%

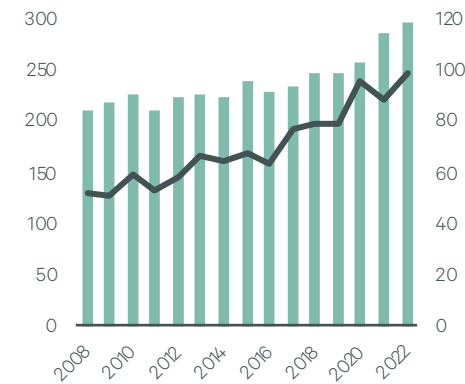
*Rent and Wages in C\$.
Source: CBRE Research, Q2 2023.

High-tech industry stats, 2022

Employment	99,000
High-Tech Software/Services	
Employment Clustering	25.1%
% of Office-Using Jobs	
Educational Attainment	35.5%
Residents w/ BA or higher	
Labor Cost (MSA)*	\$87,776
Software Engineer	

Source: Statistics Canada, CBRE Research, Q2 2023.

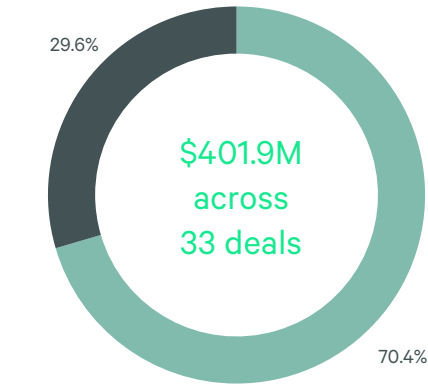
High-tech software/services vs. Office-using jobs (thousands)



● Office-Using Jobs, Excluding High-Tech (L)
● High-Tech Software/Service Jobs (R)

Source: Statistics Canada, CBRE Research Q2 2023

Venture Capital Funding by Industry H1 2023



● Tech Funding
● Remaining Funding

Source: CB Insights and CBRE Research, Q2 2023.

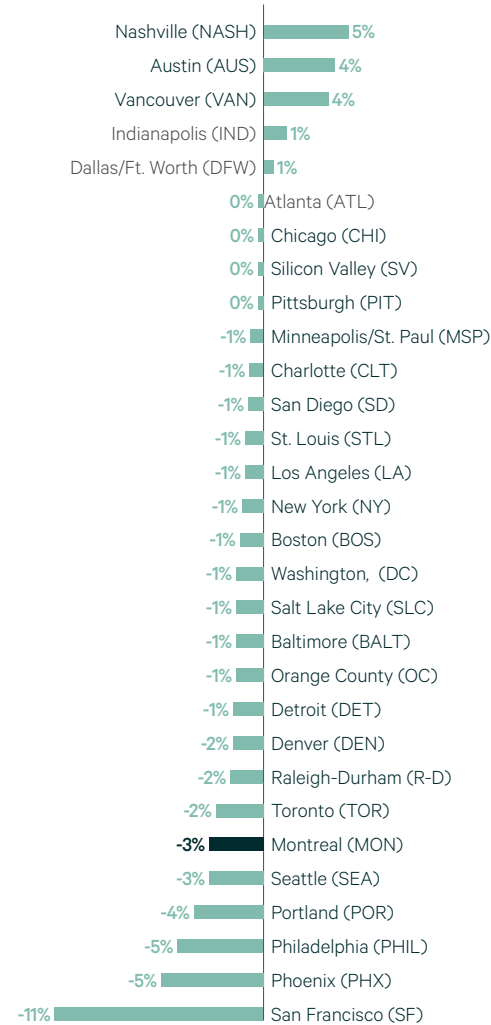
High-tech software/services job and office rent growth

Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
1	Vancouver	26.3%	36.3%	15.3%	13.3%
2	Austin	26.1%	25.8%	15.0%	10.8%
3	Denver	23.7%	16.4%	3.1%	9.6%
4	Salt Lake City	22.9%	13.0%	5.5%	5.4%
5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

Ranked by high-tech job growth rate.
Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth

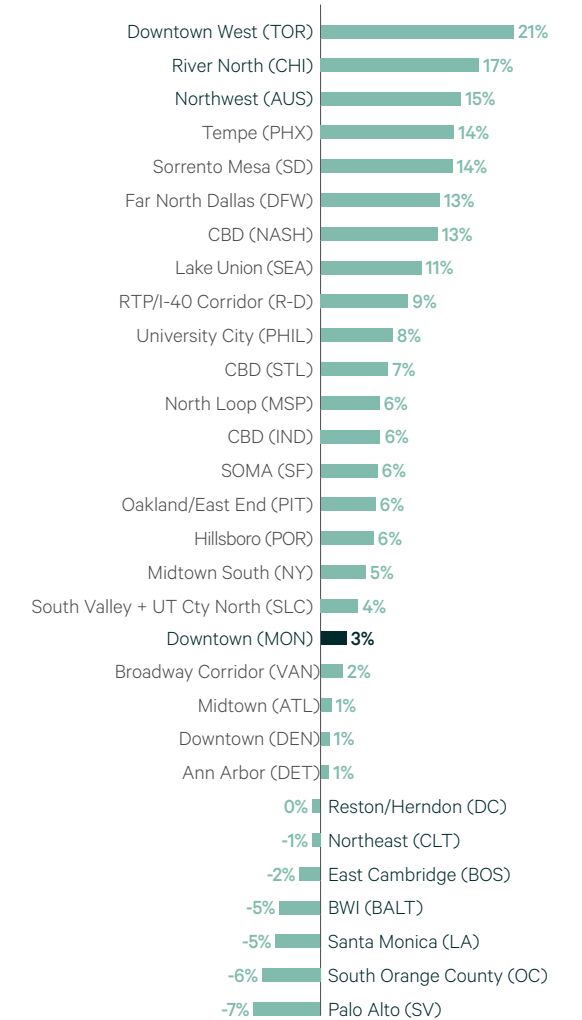
Overall market, past two years (Q3 2021-Q2 2023)



Net absorption as a % of total building stock
Source: CBRE Research, Q2 2023.

Rent growth

Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

20 Silicon Valley

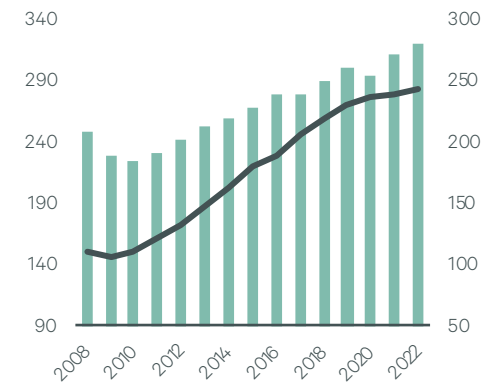
Quick Stats

Office market stats Q2 2023		High-tech industry stats, 2022	
Average Asking Rent Direct FS/YR	\$67.07	Employment High-Tech Software/Services	242,935
Vacancy Rate	18.0%	Employment Clustering % of Office-Using Jobs	43.2%
Supply		Educational Attainment Residents w/ BA or higher	0.5%
Under Construction	4 MSF	Labor Cost (MSA) Software Engineer	\$224,469
Sublease Available	6.9 MSF		
Top Tech Submarket	Palo Alto		
Rents/Vacancy	\$105.19 / 20.0%		

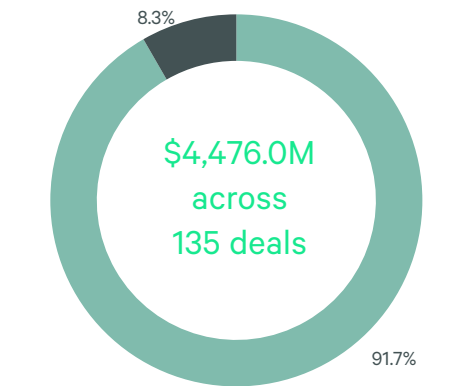
Source: CBRE Research, Q2 2023.

Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.

High-tech software/services vs. Office-using jobs (thousands)



Venture Capital Funding by Industry H1 2023



High-tech software/services job and office rent growth

Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
1	Vancouver	26.3%	36.3%	15.3%	13.3%
2	Austin	26.1%	25.8%	15.0%	10.8%
3	Denver	23.7%	16.4%	3.1%	9.6%
4	Salt Lake City	22.9%	13.0%	5.5%	5.4%
5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

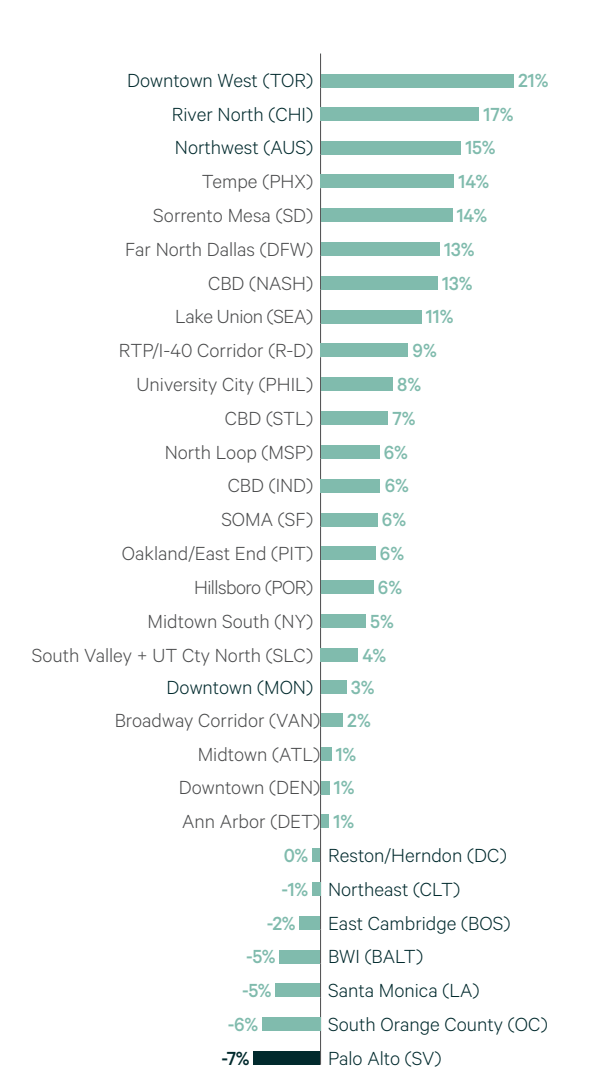
Ranked by high-tech job growth rate.
Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth Overall market, past two years (Q3 2021-Q2 2023)



Net absorption as a % of total building stock
Source: CBRE Research, Q2 2023.

Rent growth Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

21 Boston

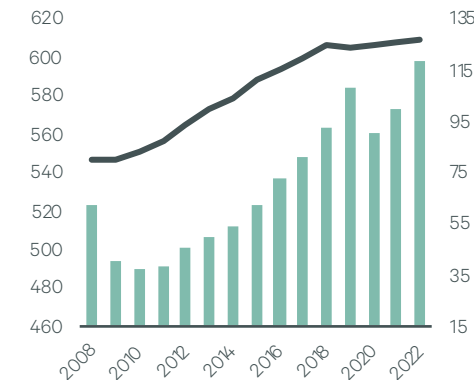
Quick Stats

Office market stats Q2 2023		High-tech industry stats, 2022	
Average Asking Rent Direct FS/YR	\$42.44	Employment High-Tech Software/Services	126,895
Vacancy Rate	15.7%	Employment Clustering % of Office-Using Jobs	17.5%
Supply		Educational Attainment Residents w/ BA or higher	51.1%
Under Construction	5.5 MSF	Labor Cost (MSA) Software Engineer	\$127,335
Sublease Available	10.0 MSF		
Top Tech Submarket	East Cambridge		
Rents/Vacancy	\$87.72 / 10.9%		

Source: CBRE Research, Q2 2023.

Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.

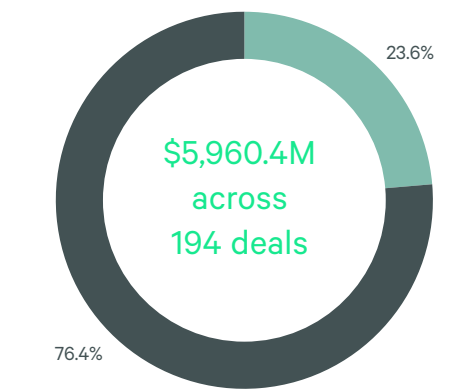
High-tech software/services vs. Office-using jobs (thousands)



● Office-Using Jobs, Excluding High-Tech (L)
● High-Tech Software/Service Jobs (R)

Source: U.S. Bureau of Labor Statistics, CBRE Research Q2 2023.

Venture Capital Funding by Industry H1 2023



● Tech Funding
● Remaining Funding

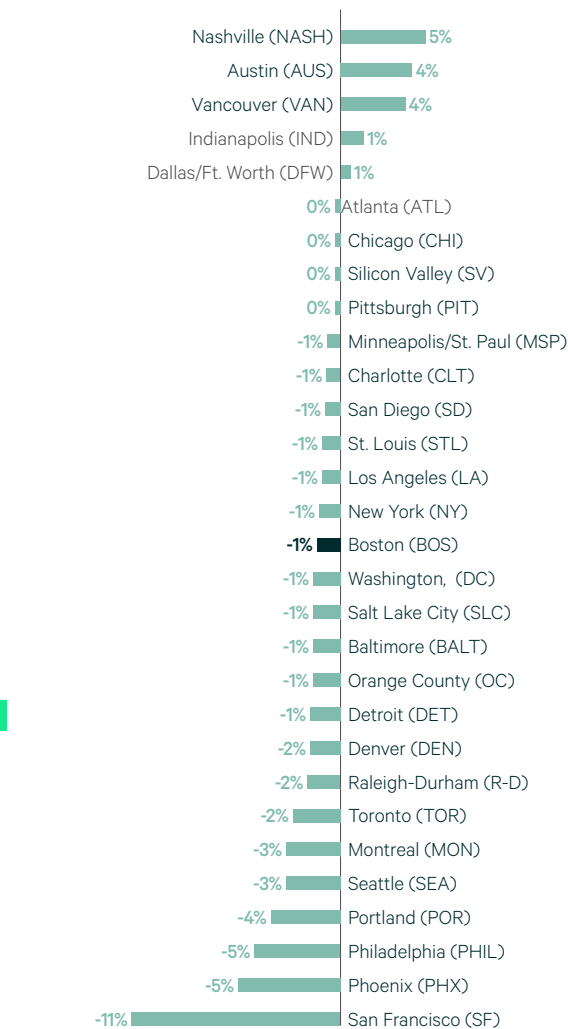
Source: CB Insights and CBRE Research, Q2 2023.

High-tech software/services job and office rent growth

Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
1	Vancouver	26.3%	36.3%	15.3%	13.3%
2	Austin	26.1%	25.8%	15.0%	10.8%
3	Denver	23.7%	16.4%	3.1%	9.6%
4	Salt Lake City	22.9%	13.0%	5.5%	5.4%
5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

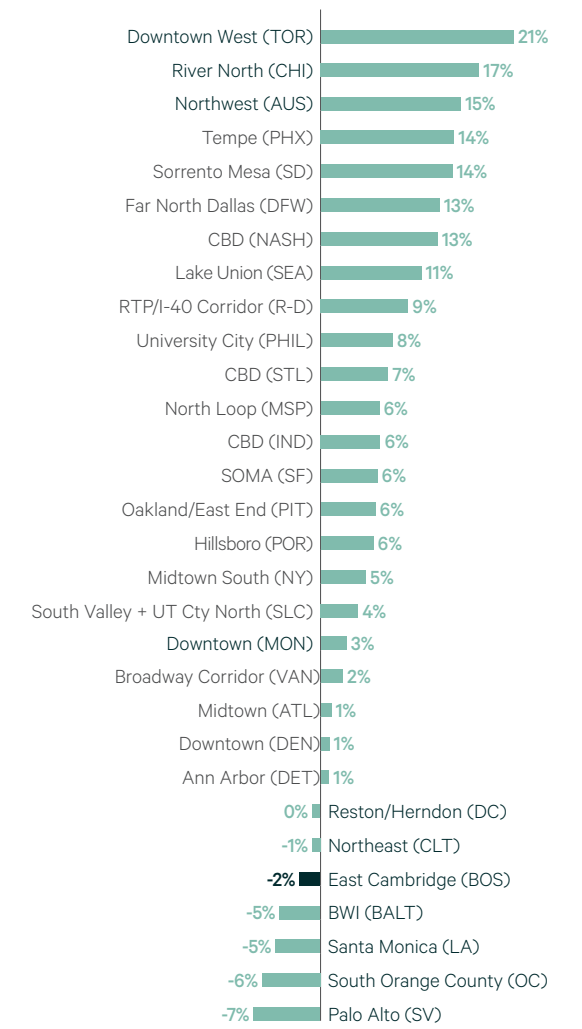
Ranked by high-tech job growth rate.
Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth Overall market, past two years (Q3 2021-Q2 2023)



Net absorption as a % of total building stock
Source: CBRE Research, Q2 2023.

Rent growth Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

22 Minneapolis/St. Paul

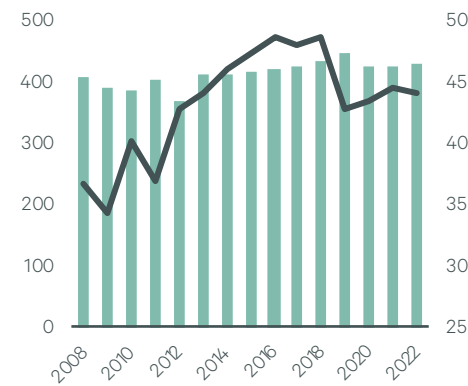
Quick Stats

Office market stats Q2 2023		High-tech industry stats, 2022	
Average Asking Rent Direct FS/YR	\$27.89	Employment High-Tech Software/Services	43,940
Vacancy Rate	21.3%	Employment Clustering % of Office-Using Jobs	9.3%
Supply		Educational Attainment Residents w/ BA or higher	
Under Construction	0.4 MSF		44.7%
Sublease Available	3.8 MSF	Labor Cost (MSA) Software Engineer	
			\$107,909
Top Tech Submarket North Loop		Rents/Vacancy \$30.03 / 25.8%	

Source: CBRE Research, Q2 2023.

Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.

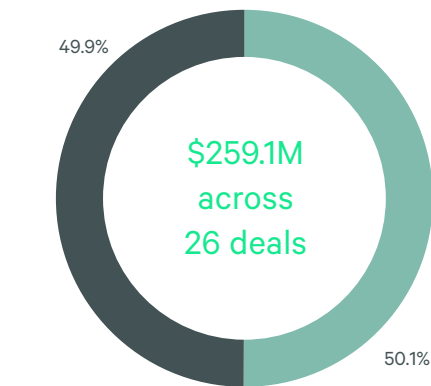
High-tech software/services vs. Office-using jobs (thousands)



● Office-Using Jobs, Excluding High-Tech (L)
● High-Tech Software/Service Jobs (R)

Source: U.S. Bureau of Labor Statistics, CBRE Research Q2 2023.

Venture Capital Funding by Industry H1 2023



● Tech Funding
● Remaining Funding

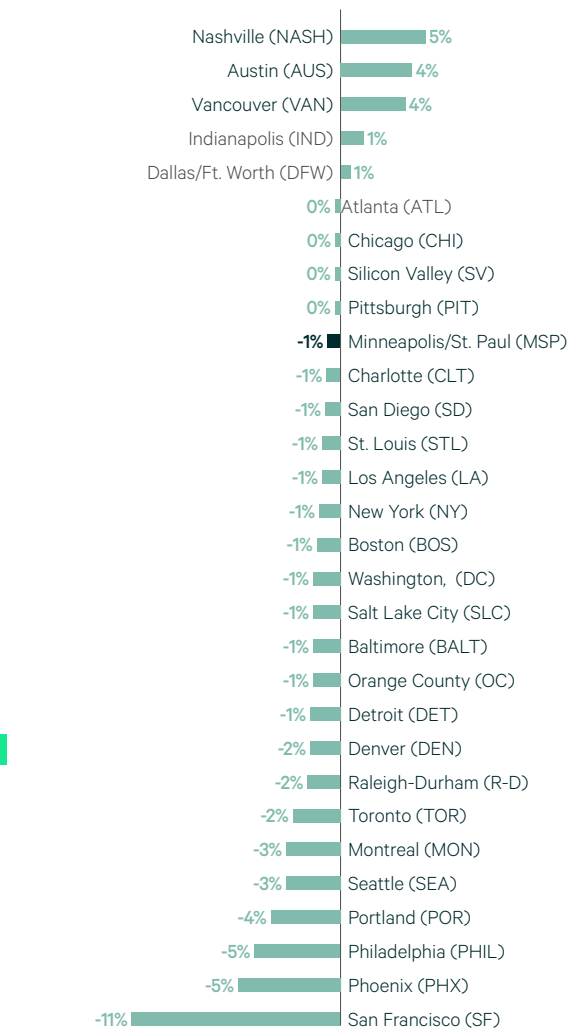
Source: CB Insights and CBRE Research, Q2 2023.

High-tech software/services job and office rent growth

Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
1	Vancouver	26.3%	36.3%	15.3%	13.3%
2	Austin	26.1%	25.8%	15.0%	10.8%
3	Denver	23.7%	16.4%	3.1%	9.6%
4	Salt Lake City	22.9%	13.0%	5.5%	5.4%
5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

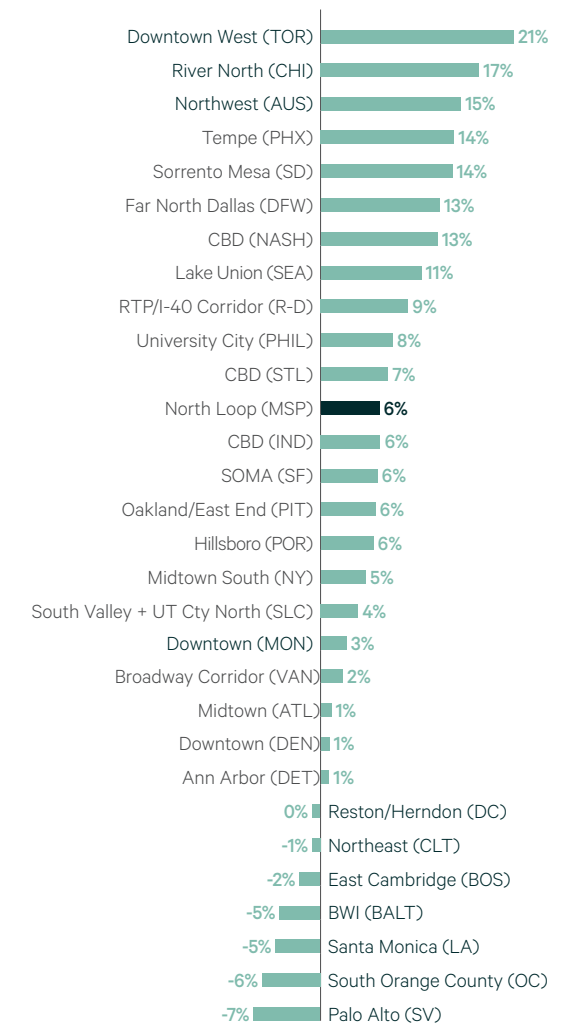
Ranked by high-tech job growth rate.
Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth Overall market, past two years (Q3 2021-Q2 2023)



Net absorption as a % of total building stock
Source: CBRE Research, Q2 2023.

Rent growth Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

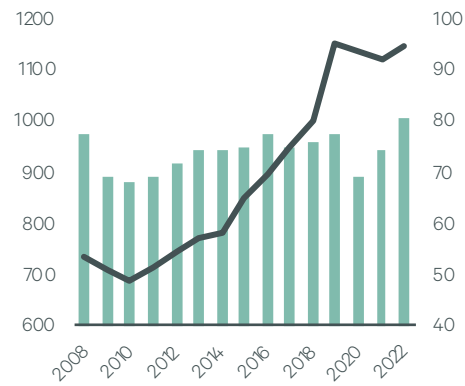
23 Los Angeles

Quick Stats

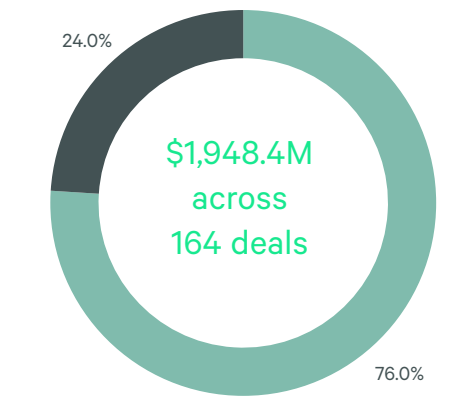
Office market stats Q2 2023		High-tech industry stats, 2022	
Average Asking Rent Direct FS/YR	\$46.82	Employment High-Tech Software/Services	94,694
Vacancy Rate	20.7%	Employment Clustering % of Office-Using Jobs	8.6%
Supply			
Under Construction	1.5 MSF	Educational Attainment Residents w/ BA or higher	35.6%
Sublease Available	10.8 MSF	Labor Cost (MSA) Software Engineer	\$121,171
Top Tech Submarket Santa Monica			
Rents/Vacancy	\$71.16 / 19.7%		

Source: CBRE Research, Q2 2023. Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.

High-tech software/services vs. Office-using jobs (thousands)



Venture Capital Funding by Industry H1 2023



High-tech software/services job and office rent growth

Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
1	Vancouver	26.3%	36.3%	15.3%	13.3%
2	Austin	26.1%	25.8%	15.0%	10.8%
3	Denver	23.7%	16.4%	3.1%	9.6%
4	Salt Lake City	22.9%	13.0%	5.5%	5.4%
5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

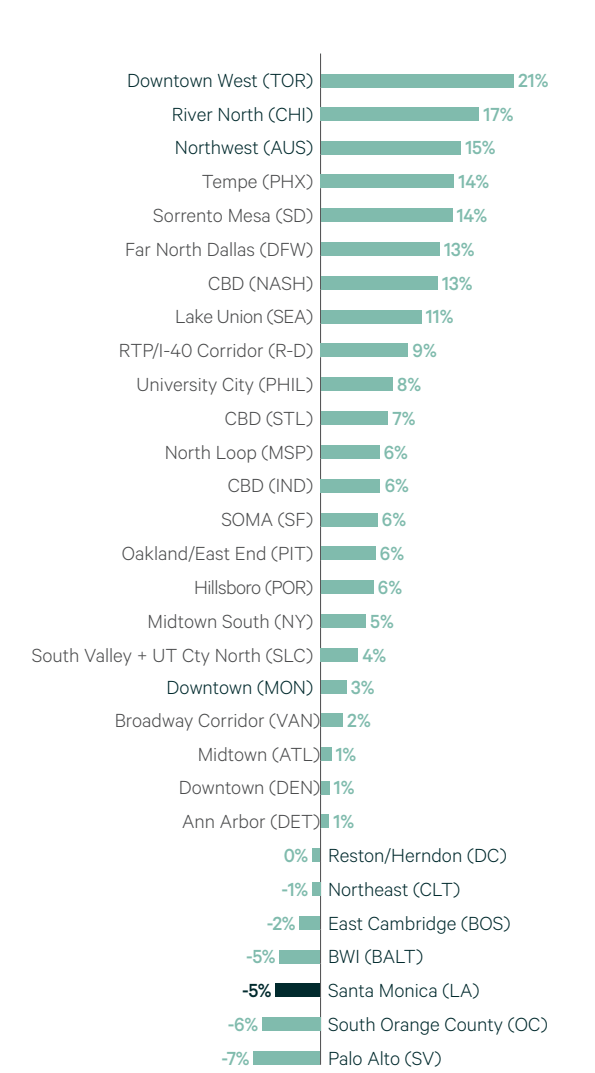
Ranked by high-tech job growth rate. Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth Overall market, past two years (Q3 2021-Q2 2023)



Net absorption as a % of total building stock. Source: CBRE Research, Q2 2023.

Rent growth Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

24 Washington, D.C.

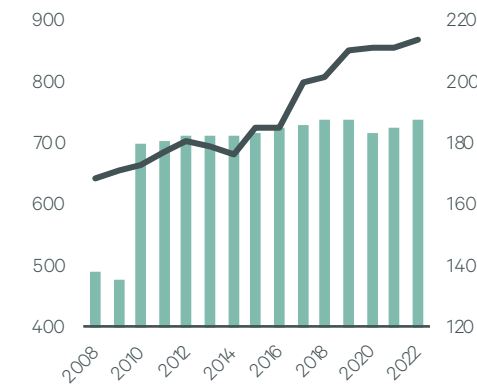
Quick Stats

Office market stats Q2 2023		High-tech industry stats, 2022	
Average Asking Rent Direct FS/YR	\$42.51	Employment High-Tech Software/Services	213,089
Vacancy Rate	20.9%	Employment Clustering % of Office-Using Jobs	22.5%
Supply		Educational Attainment Residents w/ BA or higher	53.4%
Under Construction	2.1 MSF	Labor Cost (MSA) Software Engineer	\$131,786
Sublease Available	11.2 MSF		
Top Tech Submarket	Reston/Herndon		
Rents/Vacancy	\$35.10 / 26.0%		

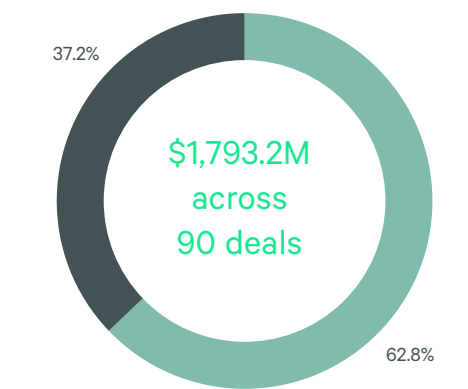
Source: CBRE Research, Q2 2023.

Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.

High-tech software/services vs. Office-using jobs (thousands)



Venture Capital Funding by Industry H1 2023



Source: U.S. Bureau of Labor Statistics, CBRE Research Q2 2023.

Source: CB Insights and CBRE Research, Q2 2023.

High-tech software/services job and office rent growth

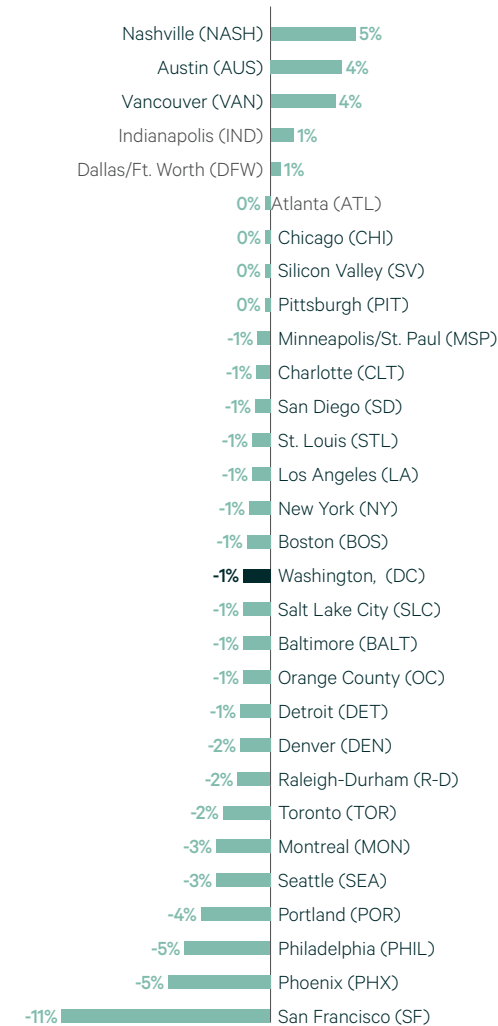
Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
1	Vancouver	26.3%	36.3%	15.3%	13.3%
2	Austin	26.1%	25.8%	15.0%	10.8%
3	Denver	23.7%	16.4%	3.1%	9.6%
4	Salt Lake City	22.9%	13.0%	5.5%	5.4%
5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

Ranked by high-tech job growth rate.

Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth

Overall market, past two years (Q3 2021-Q2 2023)

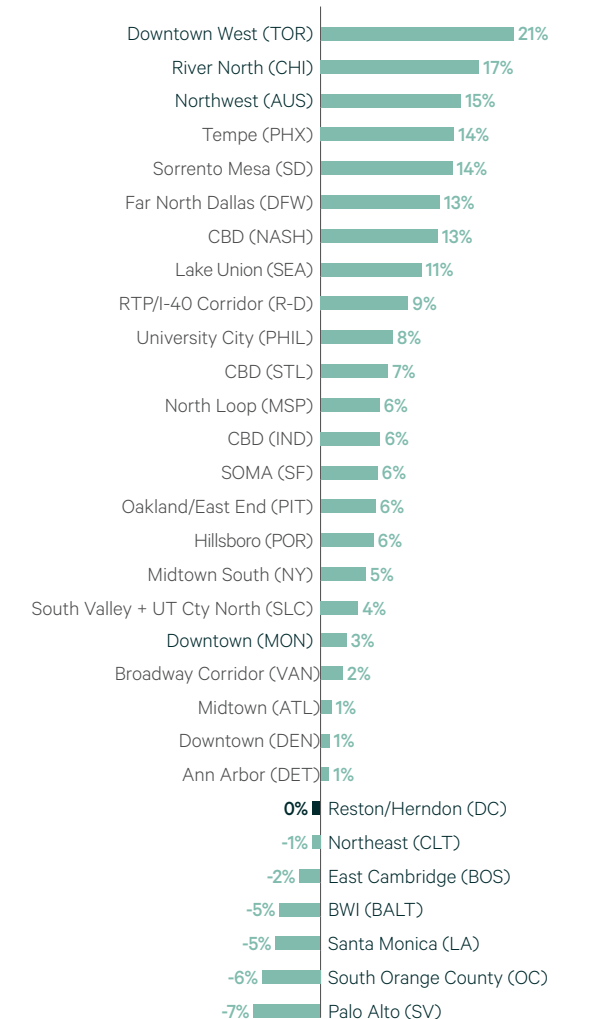


Net absorption as a % of total building stock

Source: CBRE Research, Q2 2023.

Rent growth

Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

25 Orange County

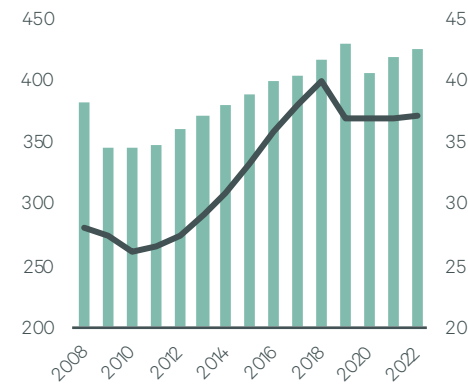
Quick Stats

Office market stats Q2 2023		High-tech industry stats, 2022	
Average Asking Rent Direct FS/YR	\$34.44	Employment High-Tech Software/Services	37,238
Vacancy Rate	14.1%	Employment Clustering % of Office-Using Jobs	8.0%
Supply		Educational Attainment Residents w/ BA or higher	43.7%
Under Construction	0 MSF	Labor Cost (MSA) Software Engineer	\$121,171
Sublease Available	4.5 MSF		
Top Tech Submarket	South Orange County		
Rents/Vacancy	\$33.36 / 11.9%		

Source: CBRE Research, Q2 2023.

Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.

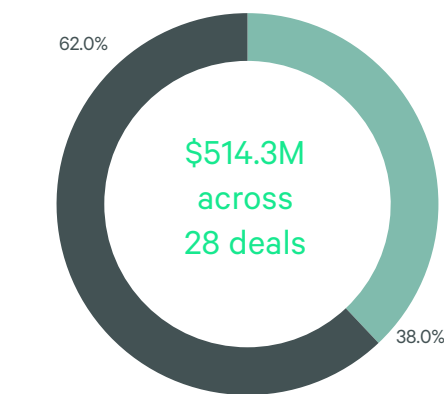
High-tech software/services vs. Office-using jobs (thousands)



● Office-Using Jobs, Excluding High-Tech (L)
● High-Tech Software/Service Jobs (R)

Source: U.S. Bureau of Labor Statistics, CBRE Research Q2 2023.

Venture Capital Funding by Industry H1 2023



● Tech Funding
● Remaining Funding

Source: CB Insights and CBRE Research, Q2 2023.

High-tech software/services job and office rent growth

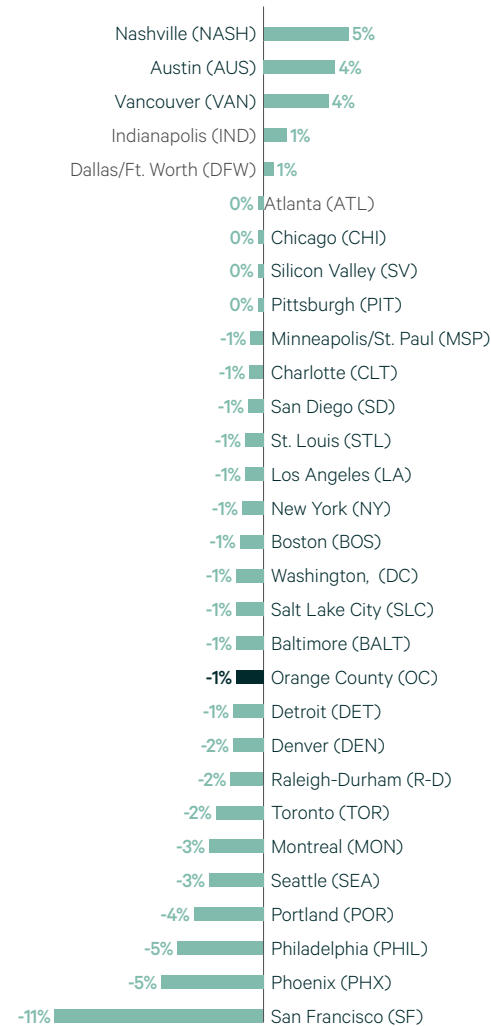
Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
1	Vancouver	26.3%	36.3%	15.3%	13.3%
2	Austin	26.1%	25.8%	15.0%	10.8%
3	Denver	23.7%	16.4%	3.1%	9.6%
4	Salt Lake City	22.9%	13.0%	5.5%	5.4%
5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

Ranked by high-tech job growth rate.

Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth

Overall market, past two years (Q3 2021-Q2 2023)

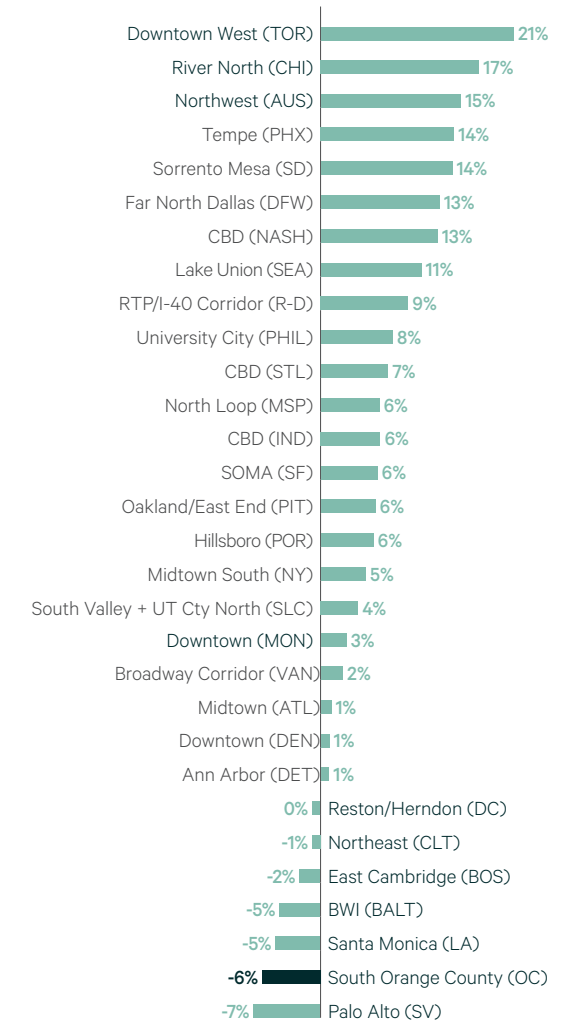


Net absorption as a % of total building stock

Source: CBRE Research, Q2 2023.

Rent growth

Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

26 Philadelphia

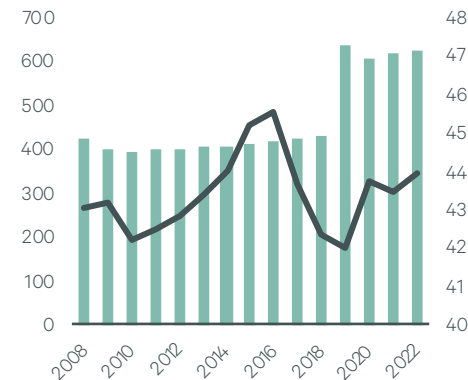
Quick Stats

Office market stats Q2 2023		High-tech industry stats, 2022	
Average Asking Rent Direct FS/YR	\$32.14	Employment High-Tech Software/Services	43,933
Vacancy Rate	23.3%	Employment Clustering % of Office-Using Jobs	6.5%
Supply		Educational Attainment Residents w/ BA or higher	41.9%
Under Construction	0.3 MSF	Labor Cost (MSA) Software Engineer	\$108,964
Sublease Available	5.2 MSF		
Top Tech Submarket	University City		
Rents/Vacancy	\$47.34 / 13.8%		

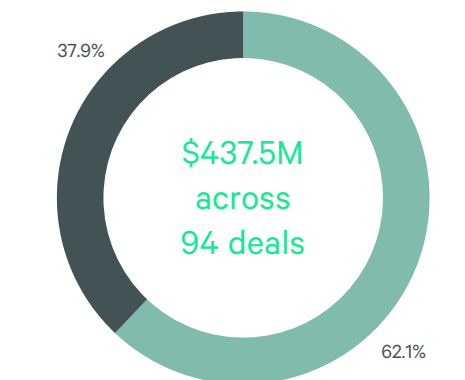
Source: CBRE Research, Q2 2023.

Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.

High-tech software/services vs. Office-using jobs (thousands)



Venture Capital Funding by Industry H1 2023

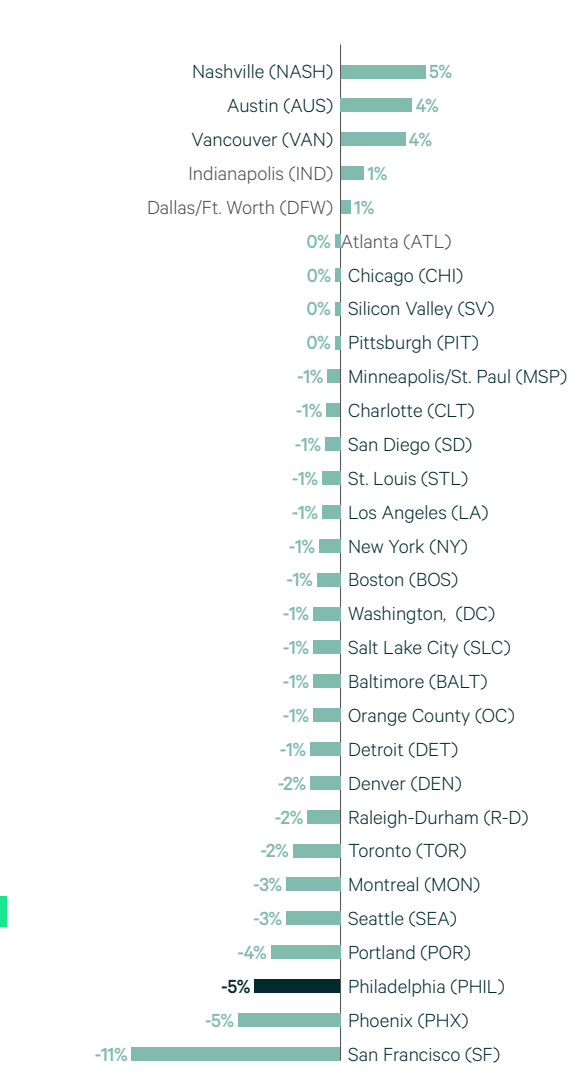


High-tech software/services job and office rent growth

Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
1	Vancouver	26.3%	36.3%	15.3%	13.3%
2	Austin	26.1%	25.8%	15.0%	10.8%
3	Denver	23.7%	16.4%	3.1%	9.6%
4	Salt Lake City	22.9%	13.0%	5.5%	5.4%
5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

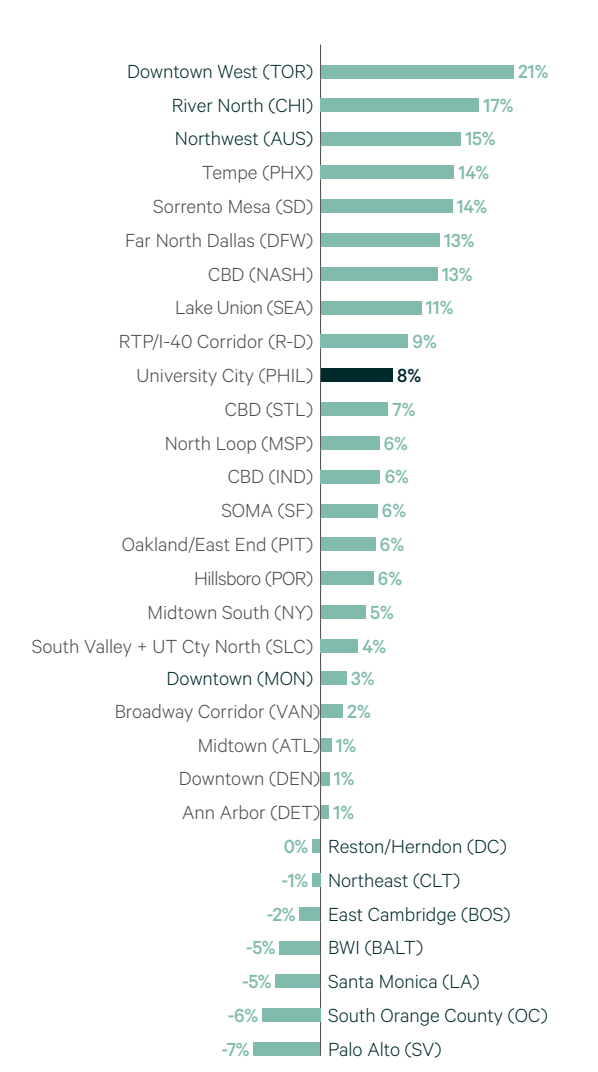
Ranked by high-tech job growth rate.
Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth Overall market, past two years (Q3 2021-Q2 2023)



Net absorption as a % of total building stock
Source: CBRE Research, Q2 2023.

Rent growth Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

27 Baltimore

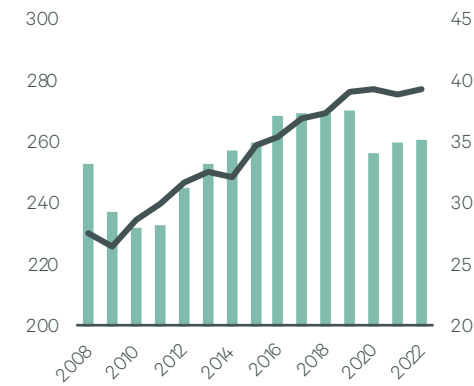
Quick Stats

Office market stats Q2 2023		High-tech industry stats, 2022	
Average Asking Rent Direct FS/YR	\$25.96	Employment High-Tech Software/Services	39,108
Vacancy Rate	18.6%	Employment Clustering % of Office-Using Jobs	13.1%
Supply		Educational Attainment Residents w/ BA or higher	42.9%
Under Construction	1.1 MSF	Labor Cost (MSA) Software Engineer	\$126,522
Sublease Available	1.7 MSF		
Top Tech Submarket	BWI		
Rents/Vacancy	\$25.05 / 10.3%		

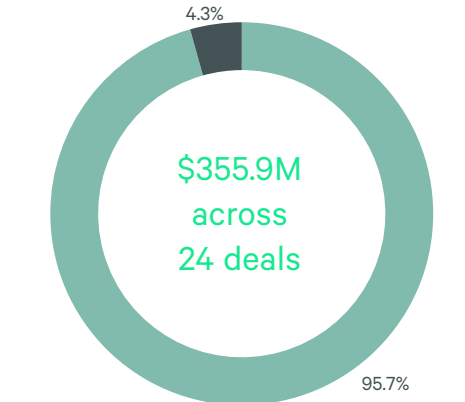
Source: CBRE Research, Q2 2023.

Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.

High-tech software/services vs. Office-using jobs (thousands)



Venture Capital Funding by Industry H1 2023



Source: U.S. Bureau of Labor Statistics, CBRE Research Q2 2023.

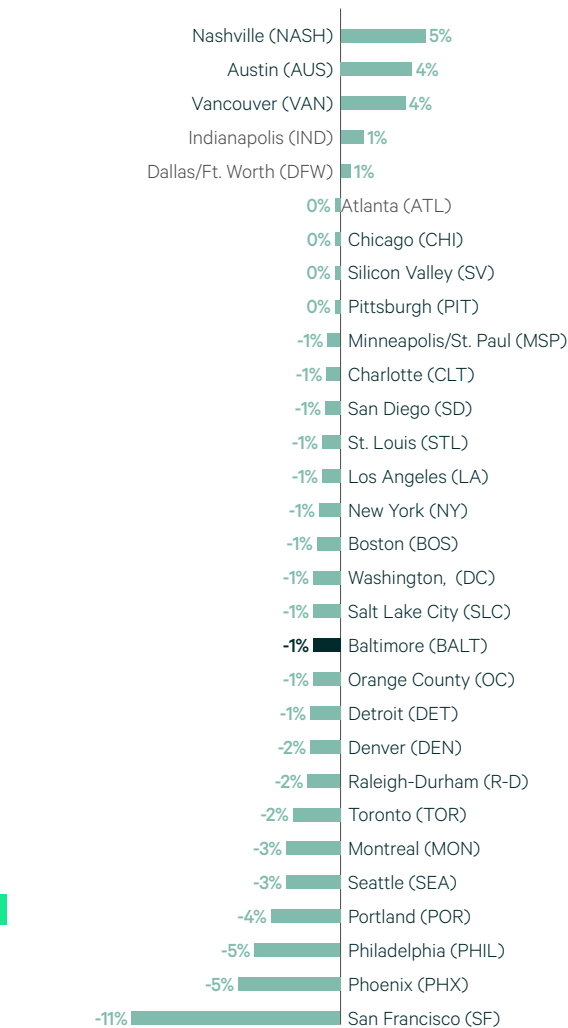
Source: CB Insights and CBRE Research, Q2 2023.

High-tech software/services job and office rent growth

Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
1	Vancouver	26.3%	36.3%	15.3%	13.3%
2	Austin	26.1%	25.8%	15.0%	10.8%
3	Denver	23.7%	16.4%	3.1%	9.6%
4	Salt Lake City	22.9%	13.0%	5.5%	5.4%
5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

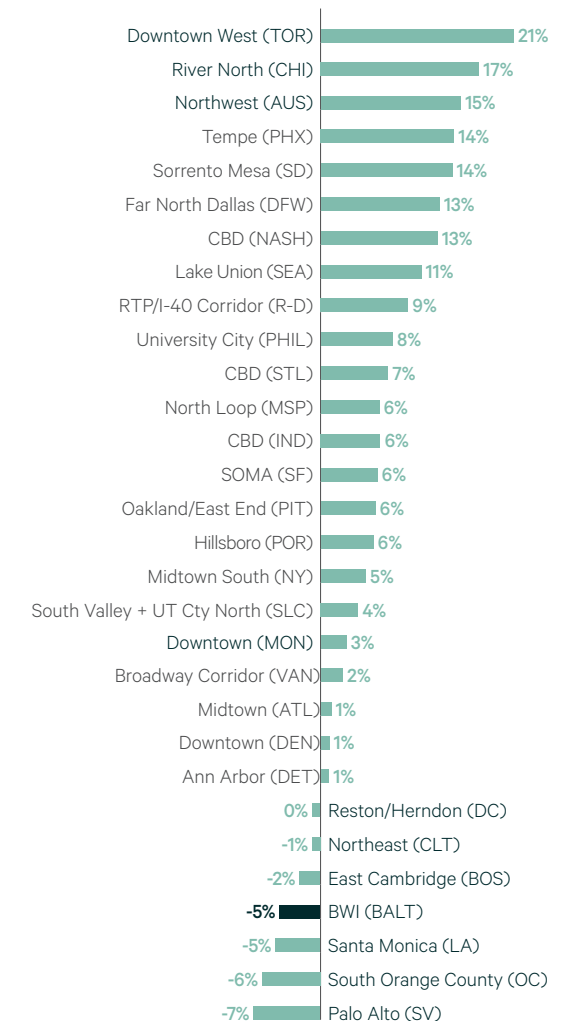
Ranked by high-tech job growth rate.
Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth Overall market, past two years (Q3 2021-Q2 2023)



Net absorption as a % of total building stock
Source: CBRE Research, Q2 2023.

Rent growth Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

28 Pittsburgh

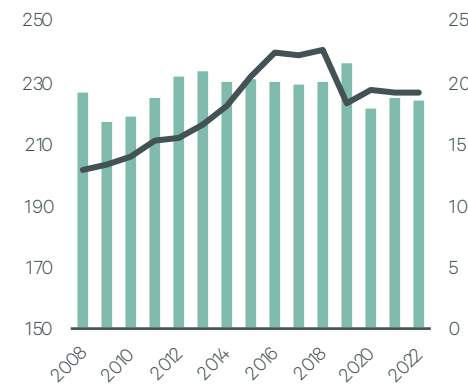
Quick Stats

Office market stats Q2 2023		High-tech industry stats, 2022	
Average Asking Rent Direct FS/YR	\$25.23	Employment High-Tech Software/Services	19,237
Vacancy Rate	16.3%	Employment Clustering % of Office-Using Jobs	7.9%
Supply		Educational Attainment Residents w/ BA or higher	38.1%
Under Construction	0.6 MSF	Labor Cost (MSA) Software Engineer	\$91,990
Sublease Available	2.1 MSF		
Top Tech Submarket	Oakland/East End		
Rents/Vacancy	\$38.20 / 12.3%		

Source: CBRE Research, Q2 2023.

Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.

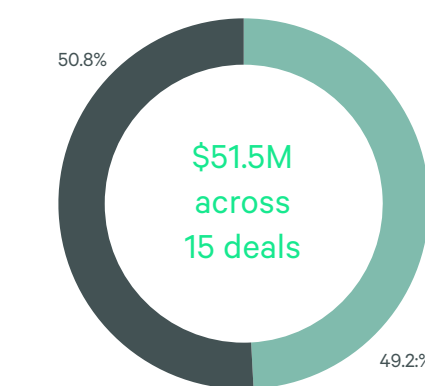
High-tech software/services vs. Office-using jobs (thousands)



● Office-Using Jobs, Excluding High-Tech (L)
● High-Tech Software/Service Jobs (R)

Source: U.S. Bureau of Labor Statistics, CBRE Research Q2 2023.

Venture Capital Funding by Industry H1 2023



● Tech Funding
● Remaining Funding

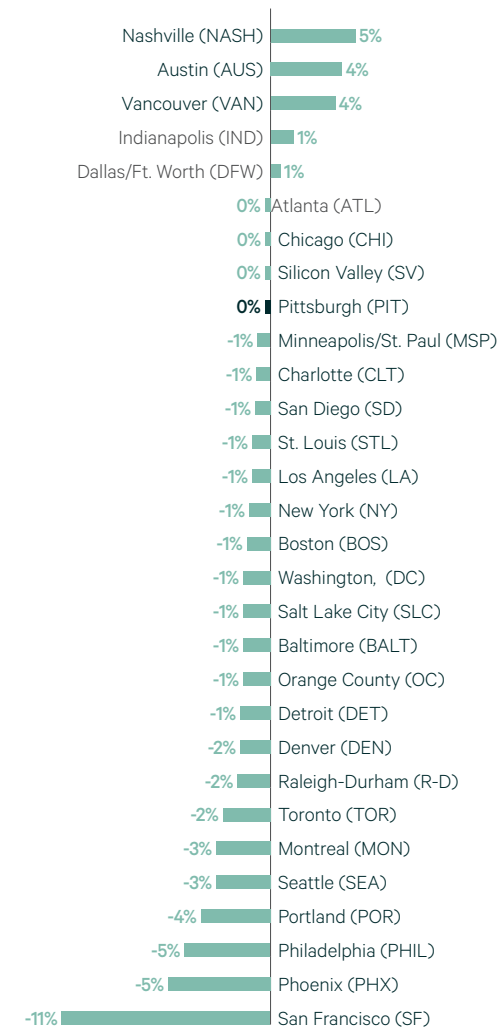
Source: CB Insights and CBRE Research, Q2 2023.

High-tech software/services job and office rent growth

Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
1	Vancouver	26.3%	36.3%	15.3%	13.3%
2	Austin	26.1%	25.8%	15.0%	10.8%
3	Denver	23.7%	16.4%	3.1%	9.6%
4	Salt Lake City	22.9%	13.0%	5.5%	5.4%
5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

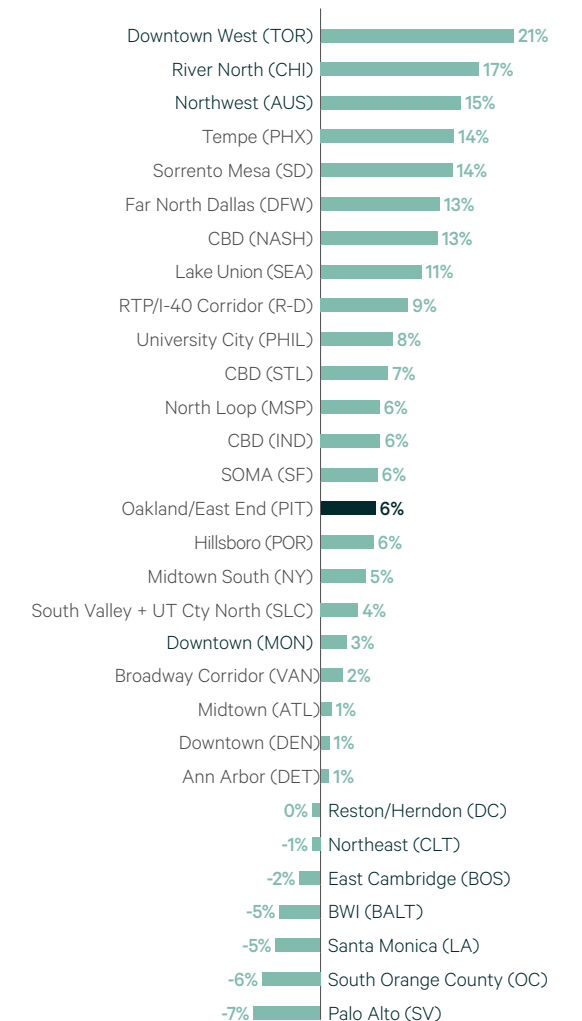
Ranked by high-tech job growth rate.
Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth Overall market, past two years (Q3 2021-Q2 2023)



Net absorption as a % of total building stock
Source: CBRE Research, Q2 2023.

Rent growth Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

29 San Diego

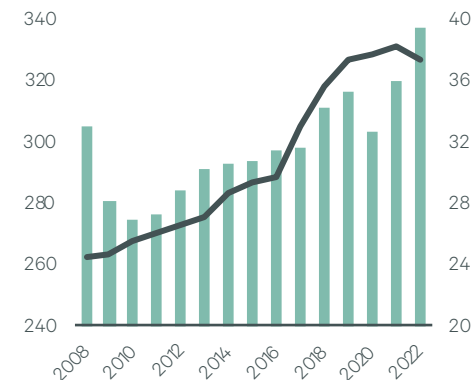
Quick Stats

Office market stats Q2 2023		High-tech industry stats, 2022	
Average Asking Rent Direct FS/YR	\$39.24	Employment High-Tech Software/Services	37,350
Vacancy Rate	14.0%	Employment Clustering % of Office-Using Jobs	10.0%
Supply		Educational Attainment Residents w/ BA or higher	42.0%
Under Construction	0.9 MSF	Labor Cost (MSA) Software Engineer	\$131,419
Sublease Available	2.8 MSF		
Top Tech Submarket	Sorrento Mesa		
Rents/Vacancy	\$44.52 / 12.2%		

Source: CBRE Research, Q2 2023.

Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.

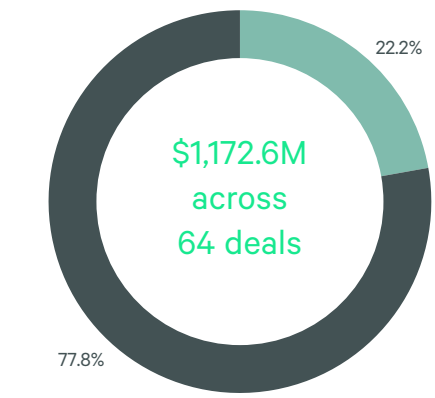
High-tech software/services vs. Office-using jobs (thousands)



● Office-Using Jobs, Excluding High-Tech (L)
● High-Tech Software/Service Jobs (R)

Source: U.S. Bureau of Labor Statistics, CBRE Research Q2 2023.

Venture Capital Funding by Industry H1 2023



● Tech Funding
● Remaining Funding

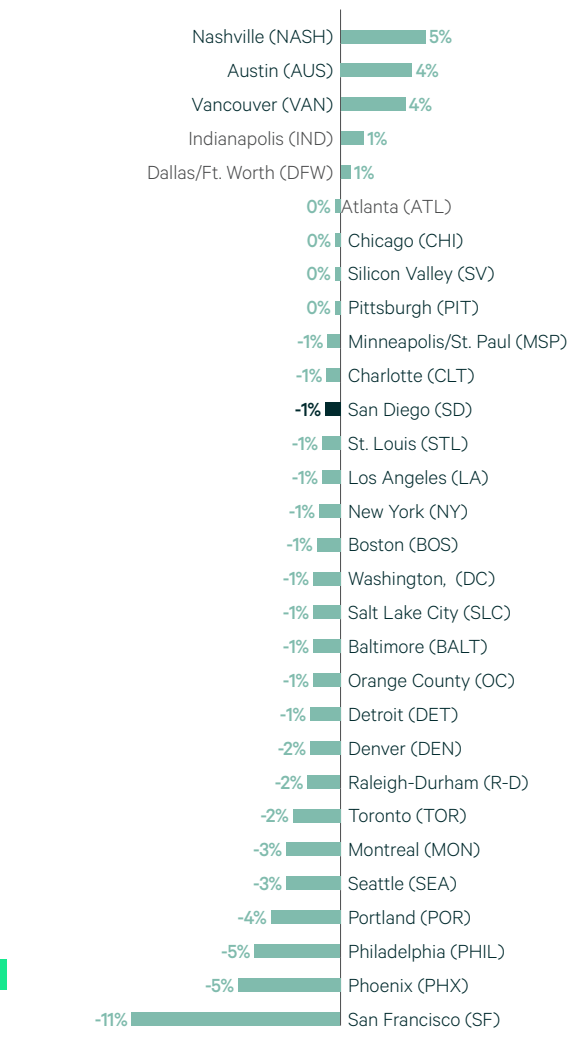
Source: CB Insights and CBRE Research, Q2 2023.

High-tech software/services job and office rent growth

Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
1	Vancouver	26.3%	36.3%	15.3%	13.3%
2	Austin	26.1%	25.8%	15.0%	10.8%
3	Denver	23.7%	16.4%	3.1%	9.6%
4	Salt Lake City	22.9%	13.0%	5.5%	5.4%
5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

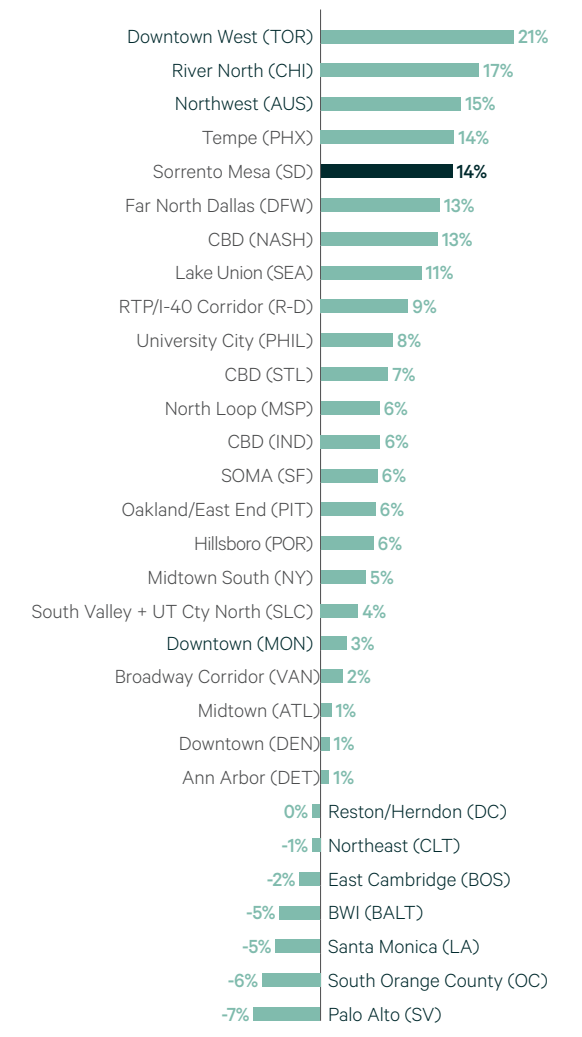
Ranked by high-tech job growth rate.
Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth Overall market, past two years (Q3 2021-Q2 2023)



Net absorption as a % of total building stock
Source: CBRE Research, Q2 2023.

Rent growth Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

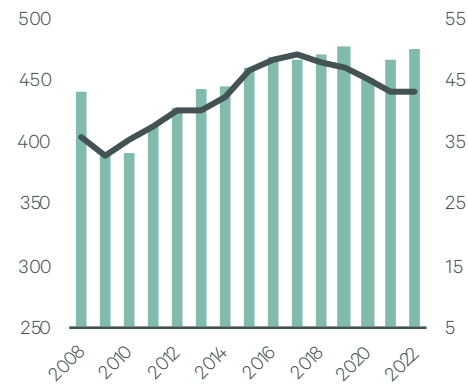
30 Detroit

Quick Stats

Office market stats Q2 2023		High-tech industry stats, 2022	
Average Asking Rent Direct FS/YR	\$19.19	Employment High-Tech Software/Services	43,111
Vacancy Rate	19.1%	Employment Clustering % of Office-Using Jobs	8.3%
Supply		Educational Attainment Residents w/ BA or higher	
Under Construction	1.2 MSF		35.8%
Sublease Available	2.3 MSF	Labor Cost (MSA) Software Engineer	
			\$98,660
Top Tech Submarket Ann Arbor		Source: U.S. Bureau of Labor Statistics, U.S. Census, CBRE Research, Q2 2023.	
Rents/Vacancy	\$25.02 / 15.9%		

Source: CBRE Research, Q2 2023.

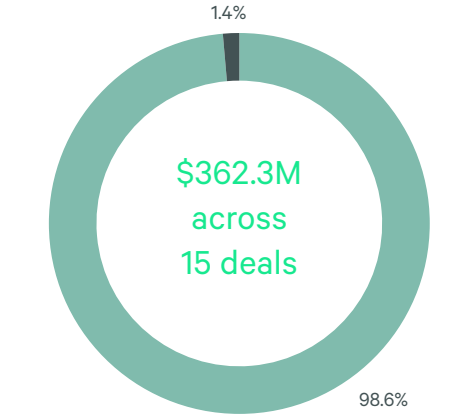
High-tech software/services vs. Office-using jobs (thousands)



● Office-Using Jobs, Excluding High-Tech (L)
● High-Tech Software/Service Jobs (R)

Source: U.S. Bureau of Labor Statistics, CBRE Research Q2 2023.

Venture Capital Funding by Industry H1 2023



● Tech Funding
● Remaining Funding

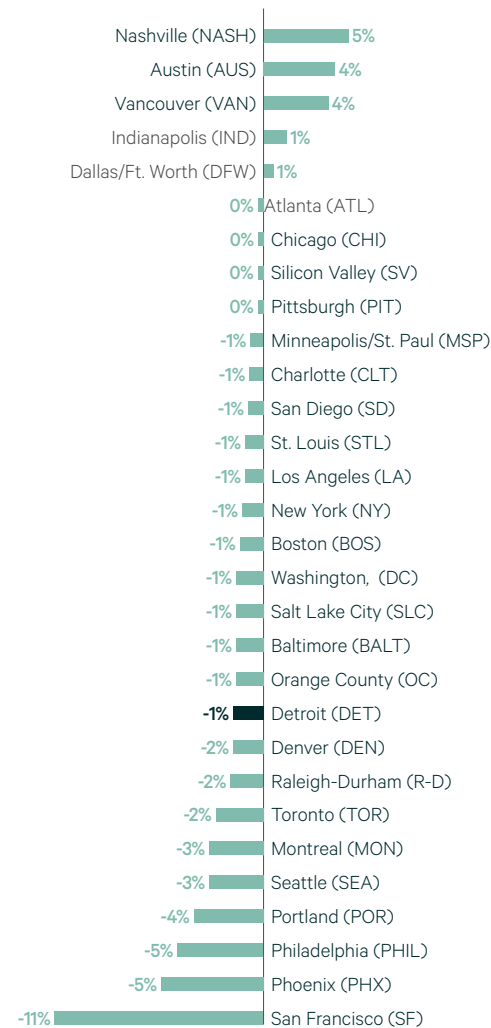
Source: CB Insights and CBRE Research, Q2 2023.

High-tech software/services job and office rent growth

Rank	Market	High-tech job growth		Office market rent growth	
		Current Period 2021 & 2022	Prior Period 2020 & 2021	Current Period Q2'21-Q2'23	Prior Period Q2'19-Q2'21
1	Vancouver	26.3%	36.3%	15.3%	13.3%
2	Austin	26.1%	25.8%	15.0%	10.8%
3	Denver	23.7%	16.4%	3.1%	9.6%
4	Salt Lake City	22.9%	13.0%	5.5%	5.4%
5	Charlotte	21.3%	22.0%	4.5%	9.2%
6	New York	17.2%	10.0%	2.0%	-5.7%
7	Raleigh-Durham	17.1%	11.8%	8.0%	13.0%
8	Nashville	17.1%	5.8%	7.7%	5.8%
9	San Francisco	14.2%	6.1%	-2.4%	-12.0%
10	Phoenix	13.4%	5.7%	6.3%	8.3%
11	Seattle	13.2%	16.6%	8.6%	16.0%
12	Dallas/Ft. Worth	12.5%	7.8%	5.7%	18.0%
13	Toronto	10.9%	44.6%	6.7%	-0.2%
14	Portland	10.0%	3.4%	5.2%	-1.1%
15	St. Louis	9.4%	6.0%	6.6%	6.2%
16	Chicago	9.0%	2.8%	9.6%	3.6%
17	Indianapolis	5.5%	-0.9%	2.7%	4.7%
18	Atlanta	3.7%	9.9%	2.9%	4.4%
19	Montreal	3.6%	11.6%	8.4%	10.2%
20	Silicon Valley	3.2%	3.0%	1.1%	2.6%
21	Boston	1.6%	1.6%	1.4%	3.2%
22	Minneapolis/St. Paul	1.6%	3.9%	-0.1%	-0.9%
23	Los Angeles	1.1%	-3.2%	2.1%	7.4%
24	Washington, D.C.	1.0%	0.0%	3.2%	-2.0%
25	Orange County	0.6%	-0.2%	-2.7%	-2.0%
26	Philadelphia	0.4%	3.4%	6.5%	2.4%
27	Baltimore	-0.5%	-0.2%	11.7%	-0.1%
28	Pittsburgh	-0.6%	4.9%	7.6%	0.4%
29	San Diego	-0.7%	2.2%	2.9%	3.9%
30	Detroit	-4.9%	-8.3%	-0.2%	0.5%

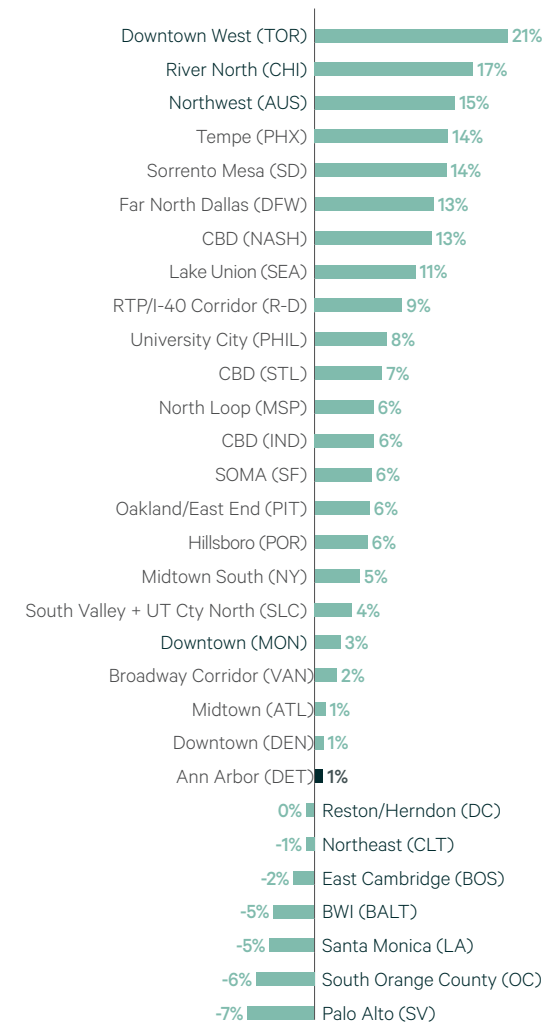
Ranked by high-tech job growth rate.
Source: U.S. Bureau of Labor Statistics, Statistics Canada, CBRE Research, Q2 2023.

Net absorption growth Overall market, past two years (Q3 2021-Q2 2023)



Net absorption as a % of total building stock
Source: CBRE Research, Q2 2023.

Rent growth Top tech submarket, past two years (Q2 2021-Q2 2023)



Source: CBRE Research, Q2 2023.

Contacts

Visit the [Tech-30 website](#) for an interactive report overview
For related research, please view [Scoring Tech Talent](#) and [Tech Insights](#)

Tech-30 Report

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