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Scoring Tech Talent is a comprehensive analysis of labor market conditions, cost and quality for highly skilled tech workers in the U.S. and Canada. The 50 largest markets were ranked according to their competitive advantages and appeal to tech employers and tech talent. The analysis also provides insight into the quality of tech talent, their demographics and how tech talent growth patterns are impacting cities and real estate markets.

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 Tech talent is a group of highly skilled workers in more than 20 technology-oriented occupations driving innovation across all industry sectors.
- WHICH ARE THE TOP-RANKED TECH TALENT MARKETS?

 A scorecard measuring 13 metrics to gauge the competitive advantages of markets and their ability to attract and grow tech talent pools determined the top-ranked tech talent markets.
- WHAT ARE TECH TALENT MOMENTUM MARKETS?

 Tech talent growth rates are the best and most easily quantified indicator of labor pool momentum and patterns across both large and small markets.
- WHAT DEFINES A TECH TALENT MARKET?

 Tech talent markets are characterized by high concentrations of college-educated workers, major universities producing tech graduates and large millennial populations.
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Employee wages and office rent for a typical 500 person U.S.-based tech firm using 75,000 sq. ft. of office space provide insight into annual operating costs, market-by-market.

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 Markets with high concentrations or clusters of rapidly growing tech talent employers have driven office leasing demand, causing rising rents and declining vacancies.
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KEY TAKEAWAYS

Nearly 6 million highly skilled workers comprise the tech talent that is leading global innovation by developing the software and devices we depend on and managing the data and systems that ensure functionality of our tech ecosystems.

MOMENTUM

QUALITY

#SCORE



The quality of tech talent

Tech job growth has accelerated in 28 of 50 comes at a cost. The San Francisco Bay Area and markets, including surges in Orange County, Kansas Seattle were standouts for City, Madison, Salt Lake both quality and cost. The best value markets were in City and Pittsburgh. Canada and the Midwest.

13 metrics measured each market's depth, vitality and attractiveness. The top-ranked markets were the San Francisco Bay Area, Seattle and New York, Atlanta and Toronto jumped up in the rankings.



BRAIN GAIN

\$COST

GO DEEPER INTO THE DATA



\$

TECH TALENT ANALYZER

The number of tech degree graduates or the "brains" were compared with tech job creation in each market to determine gains or drains. The San Francisco Bay Area and Dallas/Ft. Worth led the gains and Boston and Washington, D.C. led the drains.

The "typical" 500-person U.S.-based tech company needing 75,000 sq. ft. of office space can expect a total annual cost to range from \$24 million in Vancouver to \$57 million in the San Francisco Bay Area.

Click to get started



WHAT IS TECH TALENT?

Technology has become integrated into nearly everything we do, highlighting the growing scope of devices and software that form the internet of things. Highly skilled tech talent individuals are creating and enabling this evolving culture between work and home. Computers in the home and workplace are commonplace, but new tools (i.e., wearable technology, Wi-Fi-enabled lightbulbs and voice-activated home assistants) are becoming more universally adopted, and expectations for fast deliveries and real-time information updates are increasing. Technology is the future and companies from all industries are expanding their innovation capabilities to satisfy changing customer and consumer demands.

Nearly 6 million highly skilled tech talent workers are leading global innovation that will shape our daily lives and economy for decades to come. These tech talent workers comprise 20 different occupations, from software developers who enable the devices we

depend on to systems and data managers who ensure that our tech ecosystems function.¹ These positions are highly concentrated within the hightech services industry but are not limited to any one type of company and are spread across all industry sectors (Figure 1). Using this definition, a software developer who works for a logistics company is included in our data.

The 4.9 million tech talent workers in the U.S. and 776,000 in Canada account for 3.5% and 5.1% of total workers in each country, respectively. This relatively small labor force has an outsized impact on real estate markets and the economy. The number of tech talent workers has increased by 27% in the past five years, adding more than 1 million jobs to the U.S. economy at a pace more than three times the national average. They are fueling new innovation and adapting technology within non-traditional tech sectors to increase productivity and strengthen the national economy.

¹Tech Talent includes the following occupation categories: software developers and programmers; computer support, database and systems; technology and engineering related; and computer and information system managers.



FIGURE 1: TECH TALENT LABOR BY INDUSTRY (2016)

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Tech Talent Occupations in Each Industry as a % of U.S. Tech Talent



WHICH ARE THE TOP-RANKED TECH TALENT MARKETS?

The highly competitive and supply constrained market for tech talent, along with advanced communications infrastructure, has accelerated the expansion of tech talent labor pools beyond major hubs and into smaller markets. These previously untapped and undersupplied regions are gaining appeal from start-ups and established companies. Accordingly, demand for commercial real estate to accommodate this growing workforce is on the rise.

Fifty of the largest markets by number of tech talent professionals in the U.S. and Canada were analyzed to create a scorecard that ranks them (Figure 2). The scorecard uses 13 metrics to measure each market's depth, vitality and attractiveness to companies seeking tech talent and to tech workers seeking employment. Each metric was weighted by its relative importance to job creation and innovation. Tech

talent concentration metrics have the highest weights because they signify clustering of tech workers. Labor costs for tech talent are weighted more heavily than office rents because companies allocate more capital to labor than to real estate.

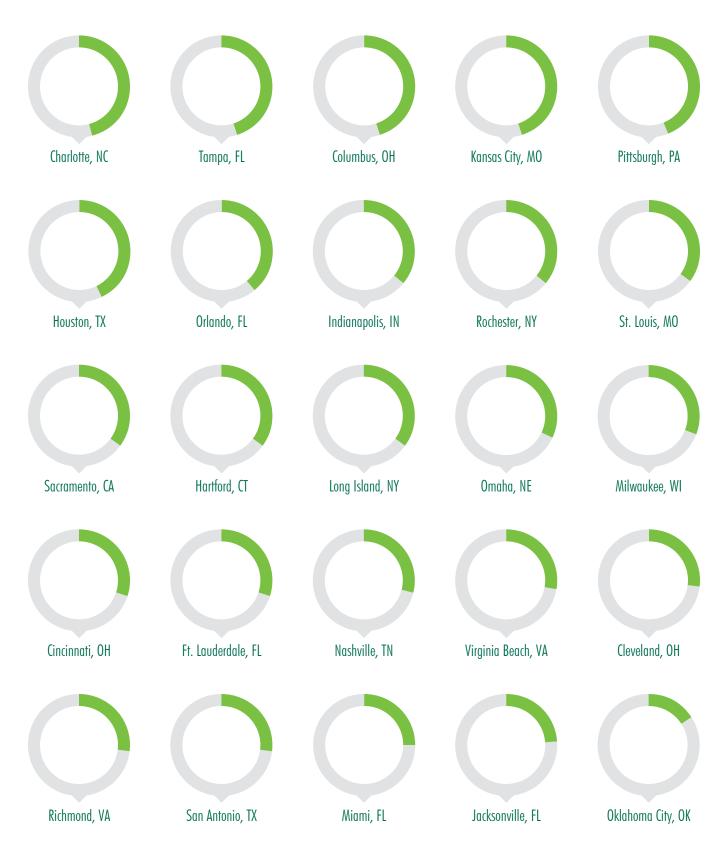
The top-three markets were the San Francisco Bay Area, Seattle and New York. Comparing the 2017 market rankings with the previous year, a few markets shifted positions. While the San Francisco Bay Area maintained the top score, Seattle and New York each moved up one spot to second and third, and Washington, D.C. slipped to fourth. Supported by strong tech-centric universities, Atlanta rose four spots to fifth and Toronto rose six spots to sixth. Other large changes came from Denver and Newark—both rose six spots to 12th and 13th, respectively.



FIGURE 2: TECH TALENT SCORECARD RANKINGS

Click on a Market to See the Full Scorecard







WHAT ARE TECH TALENT MOMENTUM MARKETS?

As many companies expand their technology capabilities, demand for tech talent is growing in both large and small markets across all industries. Major gateway markets such as New York, Toronto and the San Francisco Bay Area dominate overall tech talent growth because of their size. These markets, along with others with a tech talent labor pool of more than 50,000 workers, are categorized as "large," while those below this threshold are categorized as "small." Both Kansas City and Portland moved up into the large market bracket in 2016. Both large and small markets have their advantages; while large markets tend to have a deeper pool of talent, small markets typically offer savings in business and living costs.

Tech labor concentration—or its percentage of total employment—is an influential factor in how "tech" the market is and its growth potential. Tech talent comprises 10.3% of the San Francisco Bay Area labor force—the highest concentration of the top-50 markets and about three times the national average of tech talent density. Other large tech markets round out the top-five most concentrated tech markets: Seattle, Toronto, Washington, D.C. and Austin have concentrations of highly skilled tech workers ranging from 7.1% to 8.6% of their overall labor force. This

sizeable concentration of highly skilled workers offers an environment conducive to innovation.

In order to evaluate up-and-coming markets, compare them and determine their growth momentum, we considered "large" and "small" categories separately. During the past five years, the five fastest-growing large markets increased their tech talent labor pools by more than 40% (Figure 3), with Raleigh-Durham and the San Francisco Bay Area both growing their tech talent base by 50%. Smaller tech talent markets also grew quickly. The top-10 small tech markets increased by more than 40%. Charlotte and Tampa grew at the fastest pace of all 50 markets, increasing by 77% and 55%, respectively.

Job growth momentum has picked up in more than half of the 50 markets. Tech talent grew faster over the past two years (2015-2016) in 28 markets when compared with the prior two-year period (2013-2014). The top-10 markets for momentum grew at least 10% faster during the recent two-year period (Figure 4). Tech employment growth has a multiplier effect that positively impacts economic growth, which in turn can have an immense impact on commercial real estate.

FIGURE 3: TECH TALENT LABOR POOLS (2016)

Large Tech Talent Markets (>50,000 Labor Pools)

Small Tech Talent Markets (<50,000 Labor Pools)

Mandage	Tech Talent	Percent	by	Concen-	Mandage	Tech Talent	Growth	by	Concen-
Market	Total	Change ¹	Volume ²	tration ³	Market	Total	Rate ¹	Volume ²	tration ³
SF Bay Area, CA	328,070	49.9%	109,280	10.3%	Charlotte, NC	49,830	77.1%	21,690	4.3%
New York, NY	246,180	32.9%	60,962	3.7%	Columbus, OH	48,230	12.9%	5,510	4.7%
Washington, D.C.	243,360	9.6%	21,330	7.9%	Tampa, FL	45,340	55.3%	16,140	3.6%
Toronto, ON	212,500	31.8%	51,300	8.0%	Pittsburgh, PA	42,130	23.9%	8,140	3.7%
Dallas/Ft. Worth, TX	161,150	33.4%	40,310	4.7%	Sacramento, CA	39,430	25.3%	7,970	4.3%
Chicago, IL	143,190	32.8%	35,370	3.9%	Cincinnati, ÓH	36,450	21.0%	6,330	3.5%
Seattle, WA	136,910	33.4%	34,260	8.6%	Orlando, ÉL	35,320	45.0%	10,960	3.0%
Atlanta, GA	133,810	47.6%	43,180	5.2%	Indianapolis, IN	35,010	42.3%	10,400	3.5%
Los Angeles, CA	126,730	19.0%	20,230	3.0%	Cleveland, OH	32,120	18.3%	4,980	3.1%
Boston, MA	115,560	11.4%	11,790	6.4%	Salt Lake City, UT	31,750	45.3%	9,900	4.7%
Houston, TX	97,550	31.4%	23,320	3.3%	Milwaukee, Ŵl	30,810	21.1%	5,370	3.7%
Minneapolis, MN	95,220	25.5%	19,340	5.0%	San Antonio, TX	30,510	32.5%	7,480	3.1%
Phoenix, AZ	83,140	33.5%	20,870	4.3%	Long Island, NY	29,870	24.0%	5,790	2.3%
Detroit, MI	78,510	40.7%	22,710	4.1%	Virginia Beach, VA	27,660	16.9%	3,990	3.7%
Philadelphia, PA	77,700	27.1%	16,550	4.1%	Nashville, TN	27,270	43.5%	8,270	3.0%
Denver, CO	77,310	29.0%	17,370	5.5%	Richmond, VA	24,940	28.8%	5,570	3.9%
Baltimore, MD	72,710	35.2%	18,940	5.4%	Hartford, ĆT	24,620	17.1%	3,590	4.2%
Austin, TX	68,810	28.3%	15,170	7.1%	Miami, ÉL	24,180	46.8%	7,710	2.1%
Orange County, CA	68,220	23.2%	12,850	4.4%	Madison, WI	23,350	51.2%	7,910	6.1%
San Diego, CA	66,340	27.7%	14,380	4.8%	Ft. Lauderdale, FL	22,370	37.2%	6,060	2.8%
Vancouver, BC	65,100	36.8%	17,500	5.7%	Rochester, NY	21,510	17.8%	3,250	4.2%
Raleigh-Durham, NC		51.3%	20,660	6.9%	Omaha, ŃE	20,780	25.6%	4,240	4.3%
Newark, NJ	52,600	16.5%	7,457	4.5%	Jacksonville, FL	19,020	41.0%	5,530	2.9%
St. Louis, MO	52,190	7.9%	3,830	3.9%	Oklahoma Ćity, OK	18,970	46.6%	6,030	3.1%
Kansas City, MO	51,770	39.1%	14,540	5.0%	"	,		,	
Portland, OR	50,880	40.4%	14,650	4.5%					

 $^{\rm 1}$ 2011-2016; $^{\rm 2}$ 2011-2016; $^{\rm 3}$ 2016. Source: U.S. Bureau of Labor Statistics (Metro Area) April 2017; Statistics Canada (Metro Area), 2017.

FIGURE 4: CHANGE IN MOMENTUM OF TECH TALENT LABOR POOLS

Market	Change in Momentum in Percentage points (Past 2 years minus Prior 2 years)	Employment Growth Past 2 Years (2015-2016)	Employment Growth Prior 2 years (2013-2014)
Madison, WI	24.8	30.2%	5.4%
Ft. Lauderdale, FL	23.4	21.3%	-2.1%
Salt Lake City, UT	23.0	22.2%	-0.8%
Miami, FL	19.1	22.8%	3.7%
Kansas City, MO	17.7	20.5%	2.8%
Omaha, NE	12.2	11.5%	-0.7%
Columbus, OH	11.9	12.6%	0.6%
Pittsburgh, PA	11.6	12.0%	0.4%
Orange County, CA	11.3	11.8%	0.5%
Sacramento, CA	10.1	10.8%	0.7%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.



WHAT DEFINES A TECH TALENT MARKET?

A key aspect that top tech talent markets share is high educational attainment. Two-thirds of the top-50 tech talent markets have an educational attainment rate above the U.S. average. In Seattle and Washington, D.C., 55% or more of residents over 25 years old hold a bachelor's degree or higher (Figure 5). In Atlanta, the San Francisco Bay Area, Minneapolis and Raleigh-Durham, the educational attainment rate is above 48%.

Education, particularly with a focus on technology,² is best analyzed through degrees completed and issued from higher educational institutions. Metro areas that produced the largest number of tech graduates using the latest data available were New York, Washington, D.C., Los Angeles and Chicago (Figure 6). Large tech talent markets dominate the top-10 degree-granting regions, with the smaller markets of Pittsburgh, Salt Lake City and Minneapolis/St. Paul just missing the list. Demand is high for tech-related classes and degrees, and tech-related degree completions grew by an average of 33% in the top-10 markets since 2011. These numbers provide insight into which markets will produce the highest amount of tech talent entering the labor pool each year.

²Tech degree fields include computer engineering and information sciences; mathematics and statistics; electrical and electronics engineering; mechanical and industrial engineering; other engineering.

Graduates do not always remain in the labor market where they earn their degrees; they often migrate to locations that offer the best pay or have the most job opportunities. Analyzing tech-related graduation data and tech-related employment growth, Figure 7 presents the difference between where tech talent workers are employed and where they were educated. Tech degrees cover the most recent five-year period available (2011-2015) and tech jobs added cover the time period when most graduates would be counted in employment figures (2012-2016). The San Francisco Bay Area stands out as a strong tech-job creator, adding nearly 80,500 more tech jobs than graduates. On the other end of the spectrum, Los Angeles, Washington, D.C. and Boston produce the most tech graduates but post a deep deficit when it comes to employing them locally.





FIGURE 5: TOP 10 MARKETS FOR EDUCATIONAL ATTAINMENT

25+ Years Old, Bachelor's Degree or Higher

FIGURE 6: TOP 10 REGIONS FOR TECH DEGREE COMPLETIONS

Market	Educational Attainment Rate
Seattle, WA	62.1%
Washington, D.C.	56.7%
Madison, WI	55.0%
Portland, OR	48.6%
Raleigh-Durham, NC	48.4%
Atlanta, GA	48.3%
Austin, TX	48.3%
Minneapolis, MN	48.3%
Denver, CO	47.1%
SF Bay Area, CA	46.7%

Source:	U.S.	Census	Bureau	(City/County), 2016.

Tech Jobs

Market	Tech Degree Completions (2015)	Growth (2011-2015)
New York Metro Area ¹	14,419	37.8%
Washington, D.C. Metro Area ²	13,058	40.9%
Los Angeles Metro Area ³	10,632	26.7%
Chicago Metro Area ⁴	7,866	15.6%
Boston Metro Area	7,507	40.5%
SF Bay Area Metro Area ⁵	6,503	27.0%
Atlanta Metro Area	5,120	30.2%
Phoenix Metro Area	4,744	18.9%
Philadelphia Metro Area	4,655	33.8%
Dallas/Ft. Worth Metro Area	4,614	60.7%

¹ Includes Long Island and Newark; ² Includes Baltimore; ³ Includes Orange County;

⁴ Includes Milwaukee;

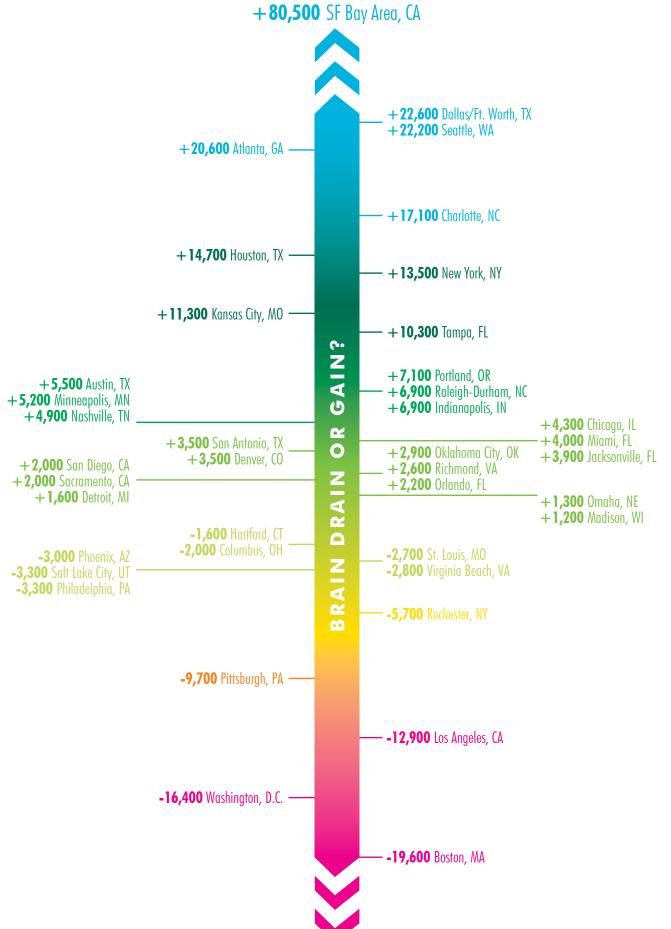
⁵ Includes Silicon Valley, San Francisco, SF Peninsula and Oakland; Source: The National Center for Education Statistics (Region), July 2016.

> **Tech Jobs Added**

FIGURE 7: WHERE ARE TALENT WORKERS COMING FROM AND WHERE ARE THEY HEADED?

		iceli 30b3				iceli Joba	
Market	Tech Degrees (2011-2015)*	Added (2012-2016)*	Brain Gain or Drain?	Market	Tech Degrees (2011-2015)*	Added (2012-2016)*	Brain Gain or Drain?
SF Bay Area, CA	28,804	109,280	80,476	Hartford, CT	5,150	3,590	-1,560
Dallas/Ft. Worth, TX	17,750		22,560	Columbus, OH	18,898	16,820	-2,078
Seattle, WA	12,043	34,260	22,217	St. Louis, MO	6,485	3,830	-2,655
Atlanta, GA	22,634	43,180	20,546	Virginia Beach, VA	6,828	3,990	-2,838
Charlotte, NC	4,639	21,690	17,051	Phoenix, AZ	23,969	20,870	-3,099
Houston, TX	8,578	23,320	14,742	Salt Lake City, UT	13,155	9,900	-3,255
New York, NY	60,678	74,209	13,531	Philadelphia, PA	19,891	16,550	-3,341
Kansas City, MO	3,192		11,348	Rochester, NY	8,953	3,250	-5,703
Tampa, FL	5,808	16,140	10,332	Pittsburgh, PA	17,795	8,140	-9,655
Portland, OR	7,563		7,087	Los Angeles, CA	45,968	33,080	-12,888
Raleigh-Durham, NC	13,738	20,660	6,922	Washington, D.C.	56,623	40,270	-16,353
Indianapolis, IN	3,514	10,400	6,886	Boston, MA	31,400	11,790	-19,610
Austin, TX	9,660	15,170	5,510				
Minneapolis, MN	14,138		5,202				
Nashville, TN	3,337	8,270	4,933				
Chicago, IL	36,459	40,740	4,281	Source, CRRE	Research, U.S. Bureau	of Lahor Statistics. The I	Mational Contor for
Miami, FL	9,817	13,770	3,953	Julice: CDKL	Neseurcii, U.S. Duieuu		Statistics (Region).
Jacksonville, FL	1,612	5,530	3,918		Los Ai	ngeles Metro Area inclu	
San Antonio, TX	4,005	7,480	3,475		New York Me	tro Area includes Newa	rk and Long Island
Denver, CO	13,918	17,370	3,452	(Miami Metro Area inclu	
Oklahoma City, OK	3,170		2,860	Ray Are	Columbus Metro Area in ea Metro Area includes :	Ciude Columbus, Cleven San Francisco Oakland	and Silicon Valley
Richmond, VA	2,964	5,570	2,606	buy Aic	Chicago Me	etro Area includes Chica	go and Milwaukee
Orlando, FL	8,806		2,154		Wash	ington D.C. Metro Area	includes Baltimore
San Diego, CA	12,382	14,380	1,998	*Tech degrees cover t	the most recent five-yea	r period available (201	1-2015) and tech
Sacramento, CA	5,977	7,970	1,993	lops added cover the	time period reflecting v	vnen most graduates w amnlovment figu	ouid be counted in ires (2012-2016).
Detroit, MI	21,155		1,555			employment ngu	103 (2012-2010).
Omaha, NE	2,916		1,324				
Madison, WI	6,695	7,910	1,215				

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Another notable characteristic of tech talent markets is the presence of millennials³ in the workforce. Having grown up with technology, the younger half of this generation only knows of a world connected by the internet. Millennials generally prefer living in cities rather than suburbs, which has helped revitalize some downtown neighborhoods. This trend is best analyzed using data at the city level. As the largest demographic cohort, their robust entry into and maturity within the labor pool contributes greatly to the growth of tech talent across all 50 markets (Figure 8).

Six large tech markets increased their millennial populations by more than 9% since 2010. Seattle grew the fastest at 16.6%. During the same time period, six of the smaller tech markets increased their

millennial populations by more than 9%, with Pittsburgh and Hartford growing significantly faster than the rest. Aided by the presence of higher educational institutions, Madison, Pittsburgh and Boston rank highest for concentration of millennials as a portion of the urban population, accounting for nearly 25% or more (Figure 9).

Similar traits between markets cause many of them to appear equivalent, but top tech markets distinguish themselves from the rest with tech clusters and higher concentrations of talent. These clusters typically form around preeminent universities where companies have access to a constant flow of new talent. Stanford University is an essential catalyst for tech clustering in the San Francisco Bay Area, as is Georgia Tech for Atlanta.

³Analysis conducted in this report, includes millennials aged 20-29 years.



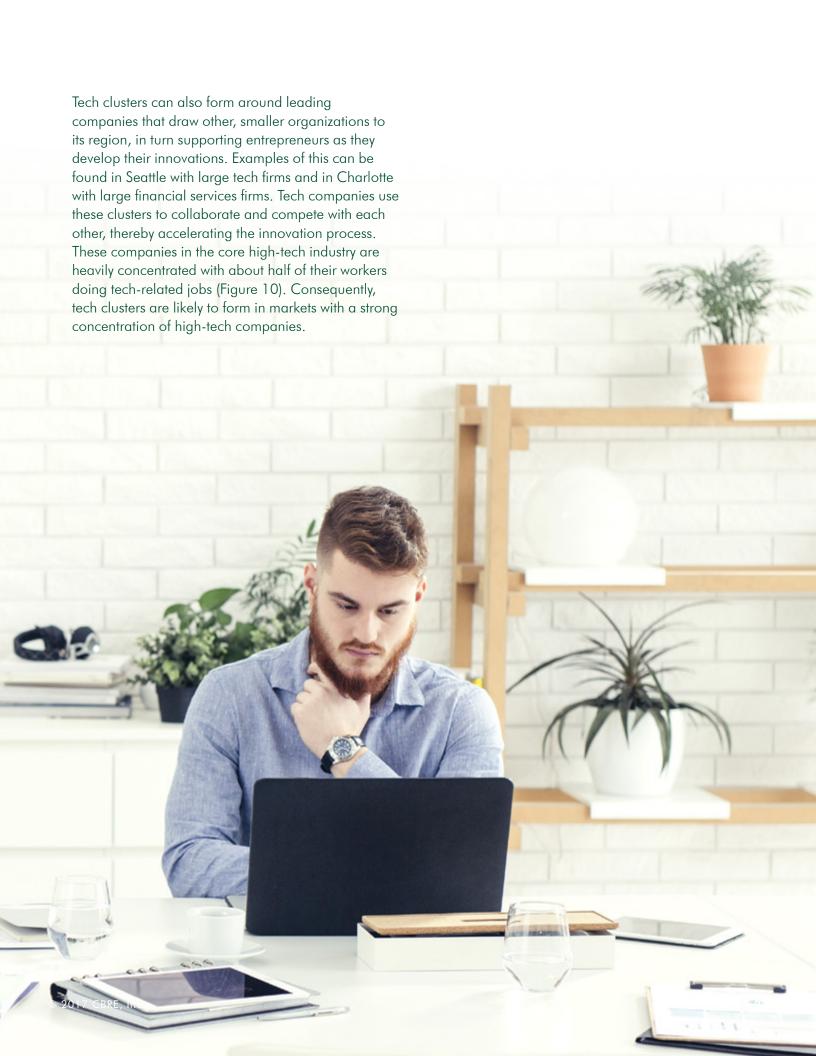
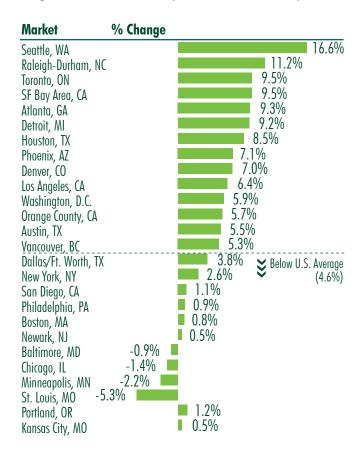
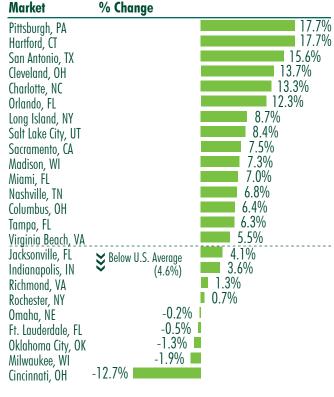


FIGURE 8: MILLENNIAL POPULATION CHANGE BY MARKET* (2010-2015)

Large Tech Talent Markets (>50,000 Labor Pools)

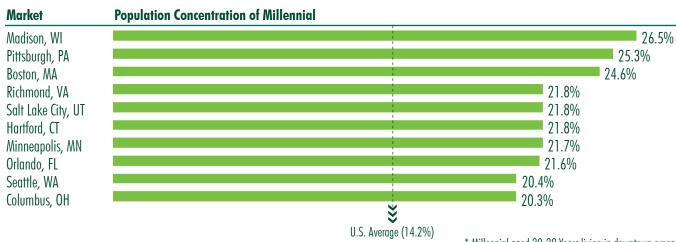
Small Tech Talent Markets (<50,000 Labor Pools)





*Millennial aged 20-29 years living in downtown areas. Source: U.S. Census Bureau (City/County), Statistics Canada, 2016.

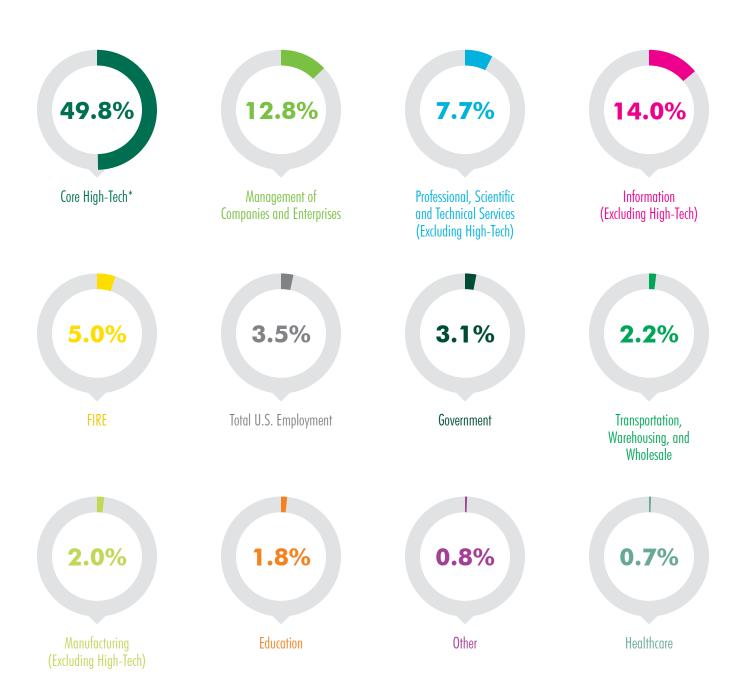
FIGURE 9: TOP 10 MOST CONCENTRATED MILLENNIAL MARKETS* (2015)



* Millennial aged 20-29 Years living in downtown areas. Source: U.S. Census Bureau (City/County), 2016.

FIGURE 10: TECH TALENT LABOR CONCENTRATION BY INDUSTRY (2016)

Tech Talent Occupations as a % of All Occupations in Each Industry



^{*}Includes computer software and services and computer product manufacturing.

Source: U.S. Bureau of Labor Statistics (National), April 2017.



WHICH ARE THE HIGHEST- AND LOWEST-COST MARKETS TO OPERATE IN?

The greatest cost for companies within tech talent markets is employee wages. These highly skilled and educated workers require a premium that can reach more than double the average non-tech salary. The San Francisco Bay Area ranked the highest for average tech talent worker salary at almost \$123,000 per year, more than \$9,000 above the next highest market—Seattle. The average tech worker wage in 19 of the 50 top tech talent markets was above the U.S. tech worker average.

The second highest cost for companies is office rent. Companies continue to pursue the benefits of tech clustering and often place a higher value on specific submarkets and even specific streets where tech talent is ample. This has led to some competition for office space and caused rental rates in these areas to increase. Average office rents are the highest in Manhattan, followed by the San Francisco Bay Area and Washington, D.C. Among the top-10 most expensive office markets, Miami and Ft. Lauderdale are the only small tech markets with an average asking rate above \$30 per sq. ft.

Combining wage and real estate costs provides insight into what a tech company might pay to operate in one or more of the top-50 tech talent markets. For this comparison, U.S. averages were analyzed to determine the occupational makeup of a typical 500-person U.S.-based tech company needing 75,000 sq. ft. of office space. This breakdown provides interesting insight into relative costs, market-by-market (Figure 12).

Local market wages were applied to the various occupations to determine total annual wage costs by market, and local market rents were used to estimate the annual cost of renting a 75,000 sq. ft. office to house the 500 employees. The San Francisco Bay Area topped the list with the highest estimated costs at more than \$57.4 million, followed distantly by the other major tech markets of New York, Washington, D.C., Seattle and Boston. These high-cost markets continue to attract employers seeking to push the boundaries of innovation, as well as the tech talent that makes it possible.

FIGURE 11: AVERAGE U.S. TECH COMPANY OCCUPATION POOLS

Tech Talent Employees*
250 (50%)

Typical
500 Person
Tech Company

Support Non-Tech Employees (excluding Management)
213 (42%)

Management
37 (8%)

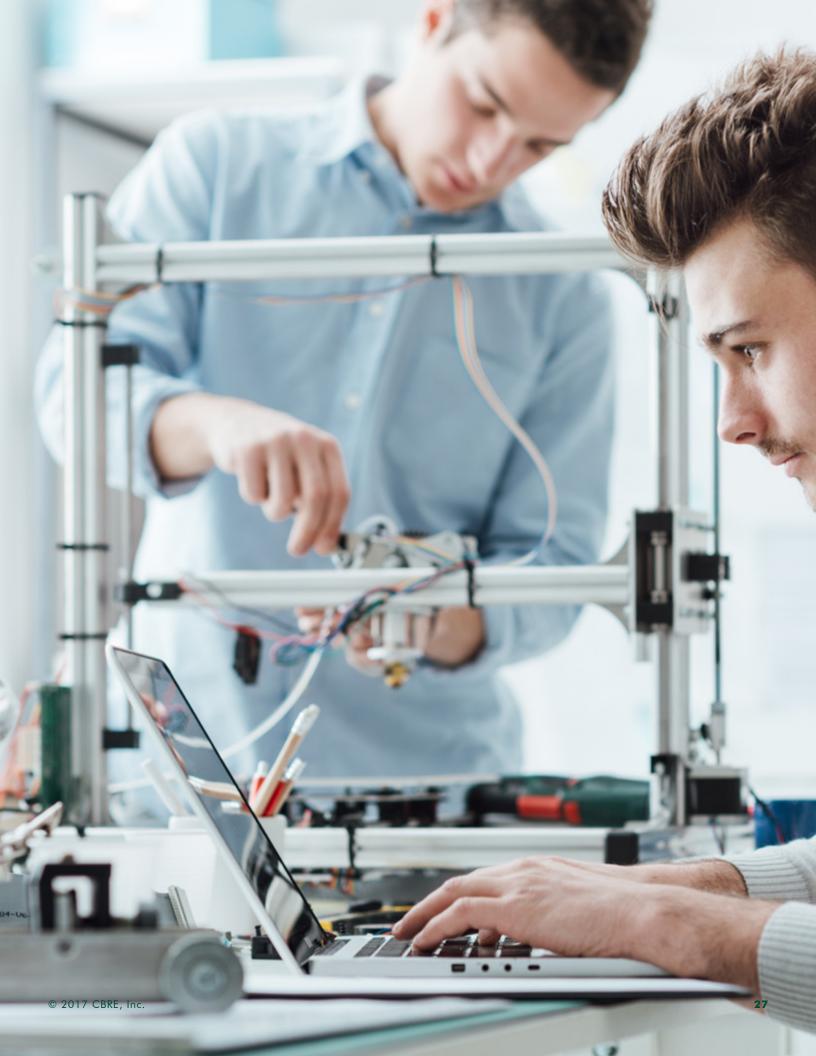
Source: U.S. Bureau of Labor Statistics (National), April 2017.
*Tech Talent includes the following occupation categories: software developers and programmers; computer support, database and systems; technology and engineering related;
and computer information system managers.

FIGURE 12: ESTIMATED ONE-YEAR WAGE AND RENT OBLIGATIONS FOR SAMPLE U.S.-BASED TECH FIRM BY MARKET

Sample Tech Firm Estimates: 500 Employees, 75,000 Sq. Ft.

Market	Rent Cost	Tech Talent Wages	Support Non-Tech Wages	Management Wages	Total
	(Avg Rent x 75,000 SF)	(Avg. Wage x 250 People)	(Avg. Wage x 213 People)	(Avg. Wage x 37 People)	Estimated Cost
SF Bay Area, CA	\$4,606,500	\$30,789,506	\$14,961,546	\$7,058,433	\$57,415,984
New York, NY	\$5,709,750	\$27,219,566	\$12,445,590	\$6,857,580	\$52,232,486
Washington, D.C.	\$2,793,000	\$27,082,593	\$14,373,118	\$6,106,387	\$50,355,097
Seattle, WA	\$2,393,211	\$28,476,566	\$12,661,133	\$5,774,220	\$49,305,131
Boston, MA	\$2,693,250	\$25,994,778	\$14,576,459	\$5,723,900	\$48,988,387
Newark, NJ	\$1,930,500	\$26,903,042	\$11,510,307	\$6,567,500	\$46,911,349
Denver, CO	\$1,973,250	\$25,095,733	\$12,608,320	\$6,095,010	\$45,772,313
San Diego, CA	\$2,514,311	\$25,064,461	\$11,266,141	\$6,016,940	\$44,861,853
Orange County, CA	\$2,403,000	\$24,813,877	\$12,041,812	\$5,284,710	\$44,543,399
Houston, TX	\$2,218,500	\$23,807,211	\$12,544,424	\$5,823,800	\$44,393,935
Los Angeles, CA	\$2,738,431	\$23,904,222	\$11,949,056	\$5,799,380	\$44,391,090
Austin, TX	\$2,541,750	\$22,860,779	\$12,617,375	\$5,703,180	\$43,723,085
Baltimore, MD	\$1,685,250	\$24,705,908	\$11,862,947	\$5,279,530	\$43,533,635
Philadelphia, PA	\$1,995,000	\$23,387,633	\$12,092,674	\$5,966,990	\$43,442,297
Long Island, NY	\$2,006,250	\$23,136,619	\$12,142,161	\$5,966,990	\$43,252,020
Dallas/Ft. Worth, TX	\$1,796,250	\$23,334,635	\$12,248,403	\$5,801,793	\$43,181,082
Hartford, CT	\$1,487,250	\$24,056,316	\$11,948,182	\$5,376,840	\$42,868,588
Minneapolis, MN	\$1,993,500	\$22,921,399	\$12,036,357	\$5,254,000	\$42,205,256
Chicago, IL	\$2,226,000	\$22,800,090	\$11,820,630	\$5,181,850	\$42,028,571
Raleigh-Durham, NC	\$1,854,750	\$23,600,083	\$11,368,141	\$5,142,053	\$41,965,027
Charlotte, NC	\$1,841,250	\$23,276,138	\$11,050,209	\$5,295,070	\$41,462,667
Atlanta, GA	\$1,828,500	\$23,095,030	\$11,288,020	\$5,173,340	\$41,384,891
Columbus, OH	\$1,442,250	\$23,127,524	\$10,843,517	\$5,477,850	\$40,891,140
Richmond, VA	\$1,466,205	\$22,617,456	\$11,195,630	\$5,374,250	\$40,653,541
Sacramento, CA	\$1,611,000	\$22,973,093	\$11,020,689	\$4,947,640	\$40,552,422
San Antonio, TX	\$1,632,000	\$22,027,208	\$11,080,945	\$5,776,440	\$40,516,593
Portland, OR	\$2,015,250	\$22,509,900	\$11,006,638	\$4,899,540	\$40,431,329
Phoenix, AZ	\$1,863,750	\$21,557,673	\$10,291,074	\$5,249,190	\$38,961,687
Detroit, MI	\$1,380,000	\$20,870,533	\$11,522,909	\$5,014,142	\$38,787,585
St. Louis, MO	\$1,399,500	\$21,793,568	\$10,348,439	\$5,131,160	\$38,672,667
Virginia Beach, VA	\$1,407,750	\$21,128,435	\$10,649,339	\$5,201,090	\$38,386,614
Cincinnati, OH	\$1,431,750	\$20,847,602	\$10,989,513	\$4,736,740	\$38,005,606
Ft. Lauderdale, FL	\$2,379,000	\$19,871,113	\$10,181,506	\$5,189,990	\$37,621,609
Pittsburgh, PA	\$1,634,250	\$20,107,965	\$10,918,471	\$4,857,730	\$37,518,416
Milwaukee, WI	\$1,371,000	\$19,842,064	\$11,594,772	\$4,597,990	\$37,405,827
Kansas City, MO	\$1,381,500	\$20,755,951	\$10,477,658	\$4,749,690	\$37,364,799
Orlando, FL	\$1,572,750	\$20,578,211	\$9,658,866	\$5,220,700	\$37,030,528
Cleveland, OH	\$1,353,750	\$19,594,454	\$11,258,375	\$4,794,830	\$37,001,408
Miami, FL	\$2,733,000	\$18,924,926	\$10,266,416	\$4,974,650	\$36,898,991
Madison, WI	\$1,455,000	\$19,443,166	\$11,513,153	\$4,342,690	\$36,754,009
Salt Lake City, UT	\$1,780,500	\$20,700,658	\$10,040,307	\$4,002,290	\$36,523,756
Tampa, FL	\$1,700,250	\$19,608,621	\$9,780,633	\$5,381,280	\$36,470,784
Omaha, NE	\$1,464,000	\$20,038,872	\$10,230,822	\$4,548,040	\$36,281,734
Rochester, NY	\$1,462,500	\$19,412,227	\$10,472,455	\$4,893,250	\$36,240,432
Indianapolis, IN	\$1,407,000	\$19,418,121	\$10,992,643	\$4,247,600	\$36,065,364
Nashville, TN	\$1,869,750	\$19,855,301	\$10,344,981	\$3,991,190	\$36,061,222
Jacksonville, FL	\$1,430,250	\$20,146,232	\$9,517,984	\$4,576,530	\$35,670,996
Oklahoma City, OK	\$1,296,000	\$18,606,115	\$9,964,585	\$3,819,140	\$33,685,840
Toronto, ON*	\$1,913,318	\$11,802,660	\$9,308,604	\$2,903,021	\$25,927,603
Vancouver, BC*	\$1,720,866	\$11,375,309	\$8,566,251	\$2,658,922	\$24,321,348

*in USD: Source: U.S. Bureau of Labor Statistics, April 2017, Canada Statistics April 2017, CBRE Research (Metro Area), Q1 2017.



HOW IS TECH TALENT QUALITY VS. COST MEASURED?

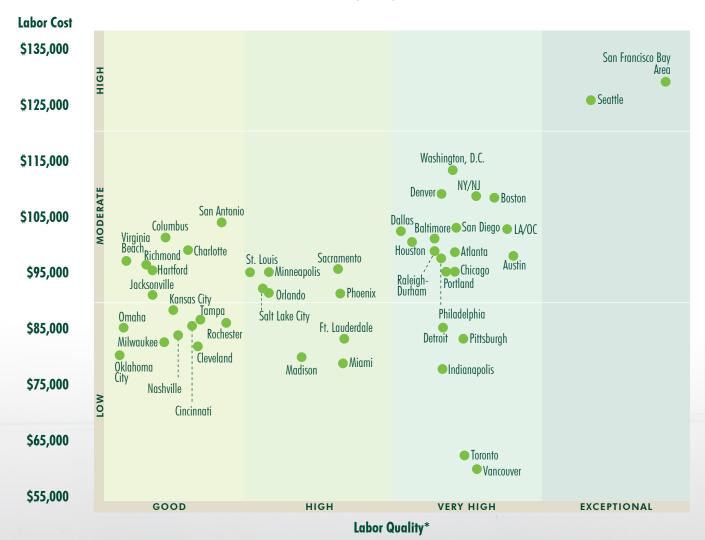
Assessing the quality of a labor market is challenging because there are no standard metrics to measure. Since the cost of talent is the largest expense category for most firms seeking tech talent, the quality of that tech talent is becoming one of their most important considerations. The skills of the available labor pool do not appear to align with available jobs, causing a structural barrier to growth for companies across North America. Jobs that require specific skills, such as software development, are in high demand and the pool of available talent to fill them is limited. Only 37% of all tech talent workers are employed in the high-tech software/services industry (Figure 1), meaning tech companies must compete with other industries that employ the remaining 63% of tech workers. In addition, the unemployment rate for college-educated workers is around 2.3%, further stiffening competition.

Figure 13 plots a quality assessment for software developers against their average salary by market to visualize this trade-off across the top-50 tech talent markets. Labor quality was measured by the number and concentration of software engineers with three or more years of experience and who have graduated from one of the top 25 computer science programs in the U.S. and Canada, as determined by U.S. News & World Report. The highest cost markets (San Francisco Bay Area and Seattle) also have the highest concentration of quality tech talent. However, good, high and very high concentrations of quality tech talent are available in moderate and low-cost markets, providing a range of options. Due in part to the strong U.S. dollar, Toronto and Vancouver provide the best value when it comes to cost and quality, followed by Indianapolis, Pittsburgh and Detroit.



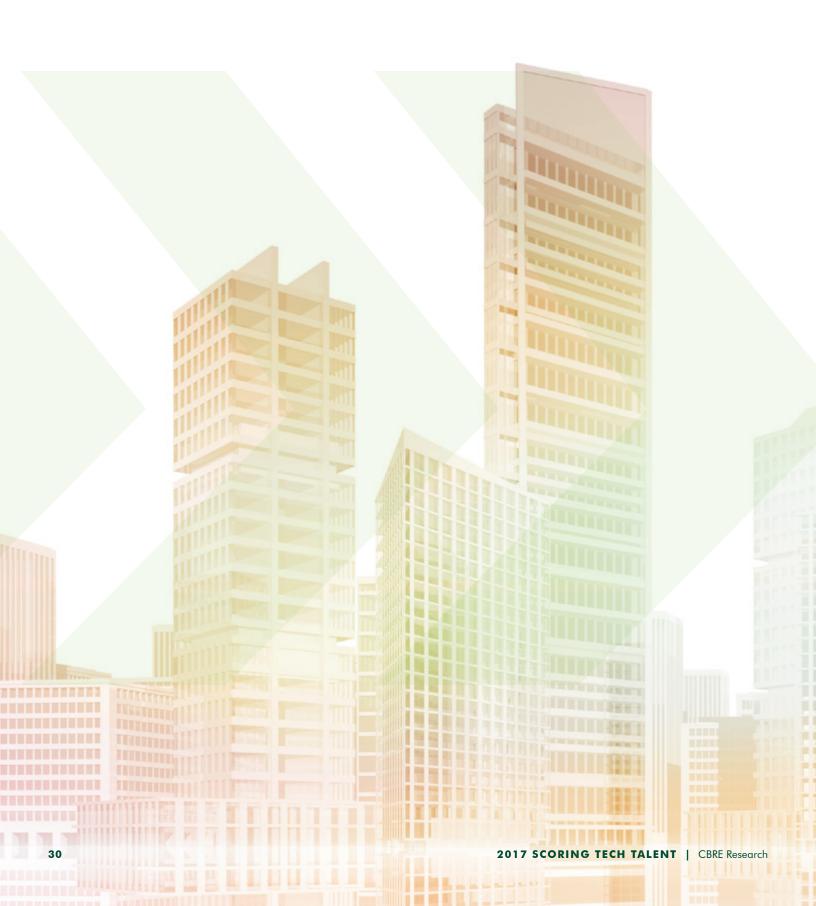
FIGURE 13: TECH TALENT QUALITY VS. COST ANALYSIS

Average Annual Salary for Software Engineer (USD)



*Concentration of software engineers/developers with 3 + years of experience that have earned degrees from the Top 25 Computer Information Science programs in the U.S. and Canada as rated by U.S. News, 2017.





HOW DOES TECH TALENT IMPACT COMMERCIAL REAL ESTATE?

Tech talent growth, primarily within the high-tech industry, has reached more than 1 million employees in the past five years and has been the top driver of office leasing activity in the U.S. during that time. The high-tech industry's share of major leasing activity⁴ nationwide increased to 19% in 2017 from 11% in 2011—the largest single share of any industry. Many tech talent markets, especially those with high concentrations or clusters of tech companies, have seen rising rents and declining vacancies as a result.

Significant demand for office space in top markets that have added tens of thousands of workers during the past five years raised rents to their highest levels and pushed down vacancy rates to their lowest levels. Rent growth is most prominent in the large tech markets, with office rents in the San Francisco Bay Area more than double what they were five years ago. But the decrease in vacancy rates is present across both large and small tech markets. Vacancy rates in

the San Francisco Bay Area and New York are the lowest of the top-50 tech talent markets, and some small markets like Madison and Nashville are not far behind (Figure 14).

The in-migration of talent to these tech markets has a sizeable impact on residential real estate as well. Although Manhattan remains the most expensive market in which to rent an apartment, 30 of the top-50 tech talent markets have a cost of living above the U.S. national average (Figure 15), according to Moody's Analytics. Comparing the annual average apartment rent with the annual average tech-worker salary, we found that even among the most expensive markets tech salaries can cover the high cost of living (Figure 16) based on the affordability standard of 30% of income to housing. Considering the underlying fundamentals of tech talent markets, we conclude that both occupiers and investors can pursue profitable real estate strategies.

⁴Includes top-25 largest transactions by sq. ft. each quarter for the 54 markets tracked by CBRE Research.

FIGURE 14: OFFICE ASKING RENT **BY MARKET (Q1 2017)**

FIGURE 15: APARTMENT ASKING **RENT BY MARKET (Q1 2017)**

Market	Annual Gross Direct Asking Rent Per SF	Vacancy Rate	Market	Average Monthly Apartment Rent	Cost of Living (U.S. = 100%)
New York, NY	\$76.13	7.7%	New York, NY	\$4,418	125%
SF Bay Area, CA	\$61.42	7.7%	SF Bay Area, CA	\$2,790	151%
Washington, D.C.	\$37.24	16.5%	Long Island, NY	\$2,218	125%
Los Angeles, CA	\$36.51	14.3%	Los Angeles, CA	\$2,214	123%
Miami, FL	\$36.44	10.9%	Boston, MA	\$2,154	119%
Boston, MA	\$35.91	13.7%	Orange County, CA	\$1,986	145%
Austin, TX	\$33.89	9.5%	San Diego, CA	\$1,895	126%
San Diego, CA	\$33.52	11.5%	Newark, NJ	\$1,732	122%
Orange County, CA	\$32.04	9.3%	Washington, D.C.	\$1,696	122%
Seattle, WA	\$31.91	11.7%	Seattle, WA	\$1,694	123%
Ft. Lauderdale, FL	\$31.72	12.9%	Miami, FL	\$1,664	113%
Vancouver, BC*	\$30.31	10.1%	Ft. Lauderdale, FL	\$1,548	111%
Chicago, IL	\$29.68	15.0%	Chicago, IL	\$1,512	98%
Houston, TX	\$29.58	16.8%	Denver, CO	\$1,395	109%
Portland, OR	\$26.87	11.2%	Sacramento, CA	\$1,373	106%
Long Island, NY	\$26.75	10.4%	Portland, OR	\$1,370	108%
Philadelphia, PA	\$26.60	14.1%	Hartford, CT	\$1,284	106%
Minneapolis, MN	\$26.58	16.7%	Philadelphia, PA	\$1,278	99%
Denver, CO	\$26.31	14.2%	Minneapolis, MN	\$1,262	101%
Newark, NJ	\$25.74	16.6%	Baltimore, MD	\$1,255	107%
Toronto, ON*	\$25.51	9.0%	Austin, TX	\$1,201	112%
Nashville, TN	\$24.93	8.1%	Orlando, FL	\$1,164	103%
Phoenix, AZ	\$24.85	17.3%	Milwaukee, WI	\$1,145	98%
Raleigh-Durham, NC	\$24.73	14.0%	Madison, WI	\$1,137	101%
Charlotte, NC	\$24.55	8.1%	Nashville, TN	\$1,123	102%
Atlanta, GA	\$24.38	16.9%	Tampa, FL	\$1,113	100%
Dallas/Ft. Worth, TX	\$23.95	19.1%	Atlanta, GA	\$1,108	101%
Salt Lake City, UT	\$23.74	11.6%	Dallas/Ft. Worth, TX	\$1,094	105%
Tampa, FL	\$22.67	11.2%	Pittsburgh, PA	\$1,075	93%
Baltimore, MD	\$22.47	14.0%	Rochester, NY	\$1,056	89%
Pittsburgh, PA	\$21.79	11.9%	Houston, TX	\$1,051	108%
San Antonio, TX	\$21.76	14.6%	Salt Lake City, UT	\$1,044	106%
Sacramento, CA	\$21.48	14.5%	Raleigh-Durham, NC	\$1,039	99%
Orlando, FL	\$20.97	10.4%	Charlotte, NC	\$1,032	99%
Hartford, CT	\$19.83	16.0%	Virginia Beach, VA	\$1,027	98%
Richmond, VA	\$19.55	11.8%	Richmond, VA	\$1,007	99%
Omaha, NE	\$19.52	11.2%	Vancouver, BC*	\$994	97%
Rochester, NY	\$19.50	14.8%	Detroit, MI	\$958	92%
Madison, WI	\$19.40	8.0%	Phoenix, AZ	\$956	105%
Columbus, OH	\$19.23	12.3%	Jacksonville, FL	\$956	101%
Cincinnati, OH	\$19.09	18.8%	Kansas City, MO	\$940	96%
Jacksonville, FL	\$19.07	15.9%	Toronto, ON*	\$933	91%
Virginia Beach, VA	\$18.77	15.6%	San Antonio, TX	\$927	102%
Indianapolis, IN	\$18.76	16.4%	St. Louis, MO	\$916	94%
St. Louis, MO	\$18.66	14.2%	Cincinnati, OH	\$902	91%
Kansas City, MO	\$18.42	12.8%	Cleveland, OH	\$894	90%
Detroit, MI	\$18.40	16.7%	Omaha, NE	\$883	93%
Milwaukee, WI	\$18.28	13.0%	Columbus, OH	\$874	95%
Cleveland, OH	\$18.05	18.4%	Indianapolis, IN	\$820	92%
Oklahoma City, OK	\$17.28	15.1%	Oklahoma City, OK	\$704	97%

^{*}in USD; Source: CBRE Research (Office Market), Q1 2017.
*in USD; Source: CBRE Econometric Advisors (City), Axiometrics, CMHC, Q1 2017. Note: New York represents Manhattan only.

FIGURE 16: TECH WAGE TO APARTMENT RENT RATIO

Market	Annualized	2016 Average	Rent-to-Tech
	Apartment Rent (2017)	Annual Tech Wage	Wage Ratio
New York, NY	\$53,015	\$108,878	30.8%
Long Island, NY	\$26,620	\$92,546	28.8%
Los Angeles, CA	\$26,564	\$95,617	27.8%
SF Bay Area, CA	\$33,483	\$123,158	27.2%
Miami, FL	\$19,964	\$75,700	26.4%
Boston, MA	\$25,845	\$103,979	24.9%
Orange County, CA	\$23,834	\$99,256	24.0%
Ft. Lauderdale, FL	\$18,570	\$79,484	23.4%
San Diego, CA	\$22,735	\$100,258	22.7%
Chicago, IL	\$18,139	\$91,200	19.9%
Vancouver, BC*	\$11,930	\$60,107	19.8%
Newark, NJ	\$20,785	\$107,612	19.3%
Washington, D.C.	\$20,350	\$108,330	18.7%
Portland, OR	\$16,441	\$90,040	18.3%
Toronto, ON*	\$11,198	\$62,365	18.0%
Sacramento, CA	\$16,473	\$91,892	17.9%
Seattle, WA	\$20,328	\$113,906	17.8%
Madison, WI	\$13,647	\$77,773	17.5%
Milwaukee, WI	\$13,746	\$79,368	17.3%
Tampa, FL	\$13,354	\$78,434	17.0%
Orlando, FL	\$13,971	\$82,313	17.0%
Nashville, TN	\$13,474	\$79,421	17.0%
Denver, CO	\$16,741	\$100,383	16.7%
Minneapolis, MN	\$15,146	\$91,686	16.5%
Philadelphia, PA	\$15,338	\$93,551	16.4%
Rochester, NY	\$12,675	\$77,649	16.3%
Pittsburgh, PA	\$12,898	\$80,432	16.0%
Hartford, CT	\$15,411	\$96,225	16.0%
Austin, TX	\$14,408	\$91,443	15.8%
Baltimore, MD	\$15,054	\$98,824	15.2%
Salt Lake City, UT	\$12,528	\$82,803	15.1%
Virginia Beach, VA	\$12,319	\$84,514	14.6%
Atlanta, GA	\$13,301	\$92,380	14.4%
Jacksonville, FL	\$11,469	\$80,585	14.2%
Dallas/Ft. Worth, TX	\$13,127	\$93,339	14.1%
Detroit, MI	\$11,490	\$83,482	13.8%
Cleveland, OH	\$10,726	\$78,378	13.7%
Kansas City, MO	\$11,285	\$83,024	13.6%
Richmond, VA	\$12,089	\$90,470	13.4%
Phoenix, AZ	\$11,478	\$86,231	13.3%
Charlotte, NC	\$12,386	\$93,105	13.3%
Houston, TX	\$12,613	\$95,229	13.2%
Omaha, NE	\$10,600	\$80,155	13.2%
Raleigh-Durham, NC	\$12,464	\$94,400	13.2%
Cincinnati, OH	\$10,825	\$83,390	13.0%
Indianapolis, IN	\$9,836	\$77,672	12.7%
San Antonio, TX	\$11,121	\$88,109	12.6%
St. Louis, MO	\$10,989	\$87,174	12.6%
Oklahoma City, OK	\$8,452	\$74,424	11.4%
Columbus, OH	\$10,491	\$92,510	11.3%

^{*}in USD; Source: U.S. Bureau of Labor Statistics, April 2016; Statistics Canada, May 2017; CBRE Econometric Advisors, Axiometrics, CMHC, Q1 2017.

APPENDIX

APPENDIX A: LOCAL MARKET PROFILES	A2
APPENDIX B: FULL REPORT DATA SUMMARY	B1
What is tech talent and why is it important?	B2
Which are the top-ranked tech-talent markets?	В3
What are tech-talent momentum markets?	B4
What defines a tech talent market?	В6
Tech talent has unique concentrations across markets.	B10
Which are the highest- and lowest-cost markets to operate in?	B14
How does tech talent impact commercial real estate?	B17



1 SF Bay Area, CA

 $81.\overset{\text{SCORE}}{28}$

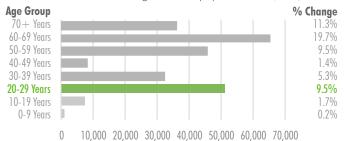
EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	328,070	49.9%	\$123,158	13.8%
	147,580	56.2%	\$128,821	12.6%
	107,560	53.9%	\$102,307	14.9%
	25,440	48.1%	\$190,768	15.9%
	47,490	27.6%	\$116,567	13.7%
TOTAL NON-TECH OCCUPATIONS Sales Administrative & Office Support Business Operations & Finance Marketing	374,590	12.3%	\$70,242	7.0%
	61,660	38.2%	\$89,789	-5.1%
	218,680	11.9%	\$54,249	10.1%
	73,500	17.3%	\$98,153	13.0%
	20,750	-32.9%	\$81,828	-3.3%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017. *Aggregate of San Francisco, Oakland and Silicon Valley Metro Areas

POPULATION TRENDS

The population of millennials in their 20s grew by 51,047 (9.5%) since 2010. That's 20.2% of total growth in a population of 3,967,273.



Source: U.S. Census Bureau (Cities of San Francisco and Oakland, counties of Santa Clara and San Mateo), 2016.
*Aggregate of San Francisco, Oakland and Silicon Valley Metro Areas

EDUCATIONAL ATTAINMENT

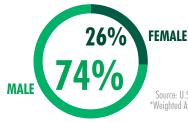


Source: U.S. Census Bureau (City), 2016. *Aggregate of San Francisco, Oakland and Silicon Valley Metro Areas

	2011-15
6,503	27.0%
3,950	28.9%
1,016	33.5%
1,537	18.8%
	3,950 1,016

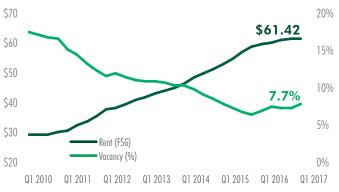
Source: The National Center for Education Statistics (Region), July 2016. *Aggregate of San Francisco, Oakland and Silicon Valley Metro Areas

TECH TALENT DIVERSITY



Source: U.S. Census Bureau (Metro Area), 2016. *Weighted Average of San Francisco, Oakland and Silicon Valley Metro Areas

OFFICE RENT & VACANCY TRENDS



Source: CBRE Research, Q1 2017.

HOUSING & RELATIVE COSTS* (US=100%)



AVERAGE APT. RENT: \$2,790 PER UNIT/MO. 38% INCREASE SINCE 2011

Source: Relative Costs from Moody's Analytics (Metro Area), Q1 2017. *Average of San Jose, San Francisco and Oakland MSAs

Source: Apt, rent data from CBRE EA (City), Q1 2017. *Weighted Average of San Francisco, Oakland and Silicon Valley Metro Areas

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
Confidential	905 11th Ave (Sunnyvale)	350,700
Confidential	2100 University Ave (Palo Alto)	214,000
Confidential	121 Spear St (San Francisco)	166,500
Confidential	415 Mission St (San Francisco)	149,000
Confidential	113 20th St (San Francisco)	126,600

Source: CBRE Research (Office Market), 2017.

START-UP PIPELINE

Top Regional Universities	Company Count	Capital Raised (Millions)
Stanford	850	\$18,146
UC Berkeley	881	\$14,239

VC-Funded Companies Founded by Alumni of Top Regional Universities:

Snapchat, Solyndra, SunRun, Flipboard, Okta, Cloudera, Zynga, Machine Zone, Sapphire Energy, Harvest Powers

Source: Pitchbook, 2017.

2 Seattle, WA

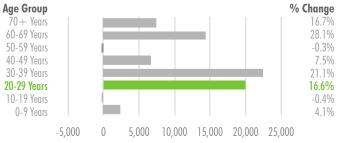
EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	136,910	33.4%	\$113,906	20.7%
	70,740	34.2%	\$125,908	26.4%
	46,240	40.2%	\$88,162	13.7%
	9,860	34.3%	\$156,060	13.8%
	10,070	4.9%	\$106,530	17.5%
TOTAL NON-TECH OCCUPATIONS Sales Administrative & Office Support Business Operations & Finance Marketing	189,830	24.6%	\$59,442	7.9%
	17,390	-1.5%	\$72,447	-4.9%
	116,870	23.4%	\$49,288	12.6%
	35,860	38.1%	\$75,901	4.5%
	19,710	40.0%	\$78,230	7.6%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 19,927 (16.6%) since 2010. That's 27% of total growth in a population of 684,443.



Source: U.S. Census Bureau (City of Seattle), 2016.

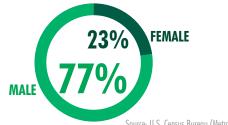
EDUCATIONAL ATTAINMENT



•	(2014-2015) Seattle Metro Area		2011-15
	TOTAL TECH DEGREES	2,984	62.7%
	Computer Engineering	1,871	64.6%
	Math/Statistics	535	61.6%
	Other Tech Engineering	578	57.9%
	Course The Matienal Center fo	. Edmant	- Ct-1:-1:

Source: The National Center for Education Statistics (Region), July 2016.

TECH TALENT DIVERSITY



Source: U.S. Census Bureau (Metro Area), 2016.

OFFICE RENT & VACANCY TRENDS



Source: CBRE Research (Office Market), Q1 2017.

HOUSING & RELATIVE COSTS* (US = 100%)



AVERAGE APT. RENT: \$1,694 PER UNIT/MO. 37% INCREASE SINCE 2011

*Seattle Metro Div Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt. rent data from CBRE EA (City), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
F5 Networks	801 5th Ave	515,500
Confidential	1812 Boren Ave	290,700
Confidential	101 Westlake Ave N	151,700
Offer Up	1745 114th Ave SE	71,300
Confidential	437 N 34th St	50,900

Source: CBRE Research (Office Market), 2017.

START-UP PIPELINE

Top Regional	Company	Capital Raised
Universities	Count	(Millions)
University of Washington	282	\$3.865

VC-Funded Companies Founded by Alumni of Top Regional Universities:

N/A

Source: Pitchbook, 2017.

3 New York, NY

64.21

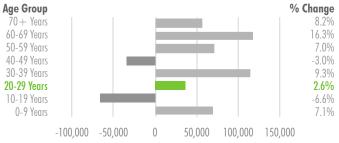
EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	246,180	32.9%	\$108,878	16.1%
	100,310	40.5%	\$108,212	17.1%
	109,870	41.3%	\$92,804	19.2%
	24,120	4.9%	\$185,340	20.9%
	11,880	3.0%	\$107,916	17.7%
TOTAL NON-TECH OCCUPATIONS Sales Administrative & Office Support Business Operations & Finance Marketing	940,790	11.3%	\$58,430	16.9%
	86,810	31.1%	\$75,577	9.4%
	575,800	1.3%	\$39,269	10.4%
	188,030	26.6%	\$101,168	16.1%
	90,150	52.1%	\$75,153	4.8%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 36,485 (2.6%) since 2010. That's 10% of total growth in a population of 8,550,405.



Source: U.S. Census Bureau (City of New York), 2016.

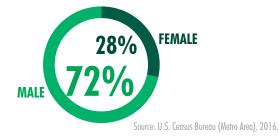
EDUCATIONAL ATTAINMENT



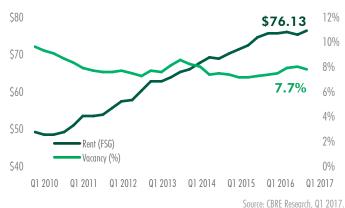
DEGREE COMPLET (2014-2015) New York (2014-2015) Metro Are		Growth 2011-15
TOTAL TECH DEGREES Computer Engineering	14,419 8,490	37.8% 44.4%
Math/Statistics	3,051	29.3%
Other Tech Engineering Source: The National Cente	2,878 er for Educat	29.2% ion Statistics

(Region), July 2016.

TECH TALENT DIVERSITY



OFFICE RENT & VACANCY TRENDS



HOUSING & RELATIVE COSTS* (US=100%)



AVERAGE APT. RENT: \$4,418 PER UNIT/MO. 17.8% INCREASE SINCE 2011 *New York Metro Div Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
Spotify	4 World Trade Ctr	481,263
IPSoft	17 State St	139,642
SS&C Technologies	4 Times Sq	135,572
Snap	229 West 43rd St	121,326
ContextMedia	330 West 34th St	55,758

Source: CBRE Research (Office Market), 2016.

START-UP PIPELINE

Top Regional Universities	Company Count	Capital Raised (Millions)
Columbia	347	\$4,995
NYU	307	\$2.682

VC-Funded Companies Founded by Alumni of Top Regional Universities:

DraftKings, Human Longevity, MediaMath, Serious Energy, Compas (US)

4 Washington, D.C.

64.13

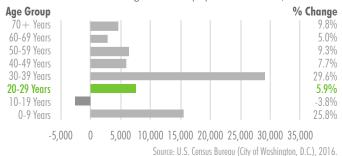
EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers & Programmers Computer Support, Database & Systems	243,360 73,100 136,680	9.6% -2.0% 25.4%	\$108,330 \$112,721 \$98,805	9.4% 9.5% 11.4%
Computer & Infor. Systems Managers Technology Engineering-Related	17,620	-9.7%	\$165,037	12.9%
	15,960	-15.8%	\$107,195	13.4%
TOTAL NON-TECH OCCUPATIONS Sales Administrative & Office Support	394,290	12.5%	\$67,479	9.5%
	37,720	40.3%	\$90,014	13.7%
	219,460	5.8%	\$51,413	3.9%
Business Operations & Finance	89,660	8.9%	\$88,909	9.3%
Marketing	47,450	40.7%	\$83,379	11.8%

POPULATION TRENDS

The population of millennials in their 20s grew by 7,578 (5.9%) since 2010. That's 11% of total growth in a population of 672,228.

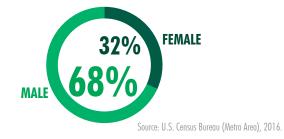
Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.



EDUCATIONAL ATTAINMENT



TECH TALENT DIVERSITY



OFFICE RENT & VACANCY TRENDS



HOUSING & RELATIVE COSTS* (US=100%)



AVERAGE APT. RENT: \$1,696 PER UNIT/MO. 7% INCREASE SINCE 2011 *Washington, D.C. Metro Div Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
Confidential	3200 Woodland Park Rd	400,677
Integrity Applications	15020 Conference Center Dr	100,000
Fulcrum IT	5870 Trinity Pkwy	61,125
NTT Data	1660 International Dr	50,000
FiscalNote	1201 Pennsylvania Ave NW	38,411

Source: CBRE Research (Office Market), 2017.

START-UP PIPELINE

Top Regional Universities	Company Count	Capital Raised (Millions)
University of Maryland	267	\$3,169
Georgetown	222	\$3,186

 $\frac{\text{VC-Funded Companies Founded by Alumni of Top Regional Universities:}}{\text{N/A}}$

Source: Pitchbook, 2017.

5 Atlanta, GA

EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers/Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	133,810	47.6%	\$92,380	15.7%
	44,290	69.0%	\$98,585	12.2%
	67,510	45.3%	\$82,545	20.0%
	10,620	33.4%	\$139,820	14.0%
	11,390	13.7%	\$82,316	7.9%
TOTAL NON-TECH OCCUPATIONS Sales Administrative & Office Support Business Operations & Finance Marketing	334,490	16.4%	\$52,995	8.3%
	37,410	58.9%	\$72,049	5.4%
	216,700	5.5%	\$43,509	4.4%
	55,780	25.0%	\$73,311	6.6%
	24,600	79.4%	\$61,519	2.1%

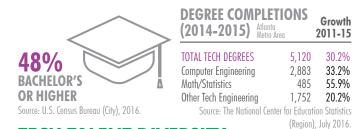
Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

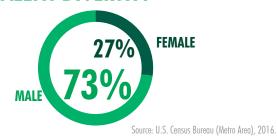
The population of millennials in their 20s grew by 7,968 (9.3%) since 2010. That's 19.2% of total growth in a population of 463,875.



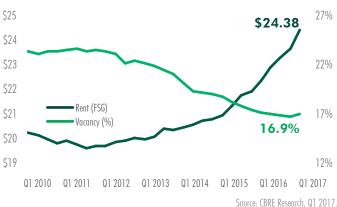
EDUCATIONAL ATTAINMENT



TECH TALENT DIVERSITY



OFFICE RENT & VACANCY TRENDS



HOUSING & RELATIVE COSTS* (US = 100%)



AVERAGE APT. RENT: \$1,108 PER UNIT/MO. 29% INCREASE SINCE 2011

*Atlanta Metro Area Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
AthenaHealth	675 Ponce De Leon Ave	40,000
CallRail	100 Peachtree St NW	31,943
SalesLoft	1180 W Peachtree St NW	30,524
Blue Sombrero	746 Willoughby Way	30,392
Membersuite	47 Perimeter Ctr E	17,100

Source: CBRE Research (Office Market), 2017.

START-UP PIPELINE

Top Regional	Company	Capital Raised
Universities	Count	(Millions)
Georgia Institute of Technology	217	\$2 718

VC-Funded Companies Founded by Alumni of Top Regional Universities:

N/A

Growth

30.2%

33.2%

55.9%

20.2%

2011-15

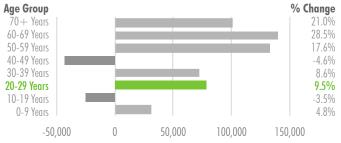
MPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage*	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	212,500	31.8%	\$82,385	14.8%
	52,100	26.2%	\$85,987	18.2%
	83,600	30.8%	\$74,422	6.8%
	26,000	150.0%	\$103,646	9.5%
	50,800	11.4%	\$80,912	17.9%
TOTAL NON-TECH OCCUPATIONS Sales Administrative & Office Support Business Operations & Finance Marketing	334,300	4.5%	\$57,731	14.0%
	6,200	1.6%	\$32,656	18.8%
	155,100	-17.7%	\$42,515	5.5%
	118,400	39.5%	\$74,942	8.9%
	54,600	35.1%	\$66,477	3.5%

*in CAD; Source: Statistics Canada (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 78,182 (9.5%) since 2010. That's 16% of total growth in a population of 6,168,677.

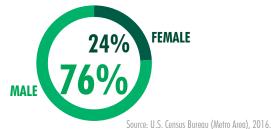


Source: Environics Analytics (City of Toronto), 2016.

EDUCATIONAL ATTAINMENT



TECH TALENT DIVERSITY



OFFICE RENT* & VACANCY TRENDS



*Rent in CAD; Source: CBRE Research (Office Market), Q1 2017.

HOUSING & RELATIVE COSTS* (US = 100%)



AVERAGE APT. RENT: \$1,233 PER UNIT/MO. 12% INCREASE SINCE 2011

*Toronto Metro Area; Data in CAD Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
CDW	185 The West Mall	68,000
Rangle.io	18 York Street	53,000
Indeed Canada	2 Bloor St W	40,000
EventMobi	207 Queens Quay West	17,000
Elemental Al	296 Richmond St W	17,000

Source: CBRE Research (Office Market), 2017.

START-UP PIPELINE

Top Regional Universities	Company Count	Capital Raised (Millions)
University of Waterloo	275	\$5,067
University of Toronto	230	\$2 845

VC-Funded Companies Founded by Alumni of Top Regional Universities:

Pivotal Software, Wish, Hangzhou Kuaidi Technology, Instacart, Real Matters

Source: Pitchbook, 2017.

/ Raleigh-Durham, NC

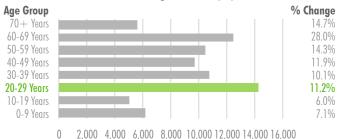
EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers	60,900 20,600 29,630 4,730	51.3% 51.5% 60.4% 17.7%	\$94,400 \$98,836 \$83,285 \$138,974	15.3% 11.7% 18.1% 17.1%
Technology Engineering-Related	5,940	43.1%	\$98,970	32.4%
TOTAL NON-TECH OCCUPATIONS Sales Administrative & Office Support Business Operations & Finance	117,900 15,220 75,930 17,890	22.4% 66.0% 14.6% 20.0%	\$53,372 \$80,520 \$42,253 \$70,885	11.5% 5.0% 8.6% 6.4%
Marketing	8,860	47.9%	\$66,654	18.6%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 14,219 (11.2%) since 2010. That's 19% of total growth in a population of 709,547.



Source: U.S. Census Bureau (Cities of Raleigh and Durham), 2016.

Growth

26.6%

43.7%

32.7%

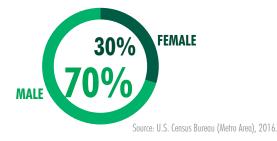
-6.7%

2011-15

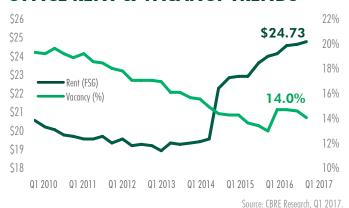
EDUCATIONAL ATTAINMENT



TECH TALENT DIVERSITY



OFFICE RENT & VACANCY TRENDS



HOUSING & RELATIVE COSTS* (US = 100%)



AVERAGE APT. RENT: \$1,039 PER UNIT/MO. 20% INCREASE SINCE 2010

*Raleigh-Durham Metro Div Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
Optum	4242 Six Forks Rd	36,000
Freudenberg IT	12 TW Alexander Drive	27,000
LogMeIn	421 Fayetteville St	17,000

Source: CBRE Research (Office Market), 2016.

START-UP PIPELINE

Top Regional Universities	Company Count	Capital Raised (Millions)
Duke	331	\$5,168
University of North Carolina	212	\$2.475

VC-Funded Companies Founded by Alumni of Top Regional Universities:

Austin, TX

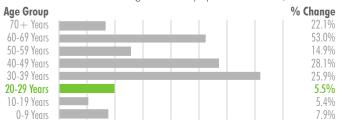
EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers/Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	68,810	28.3%	\$91,443	7.6%
	25,150	32.2%	\$97,994	3.2%
	31,910	42.9%	\$79,033	6.5%
	3,030	37.1%	\$154,140	14.8%
	8,720	-13.4%	\$96,180	21.5%
TOTAL NON-TECH OCCUPATIONS Sales Administrative & Office Support Business Operations & Finance Marketing	156,030	37.9%	\$59,237	15.0%
	25,380	117.5%	\$83,856	15.7%
	96,070	23.3%	\$47,838	7.9%
	23,140	34.8%	\$72,260	8.2%
	11,440	79.0%	\$73,993	23.8%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

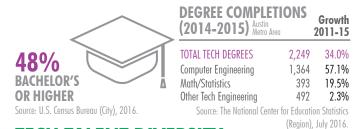
The population of millennials in their 20s grew by 9,763 (5.5%) since 2010. That's 7.2% of total growth in a population of 931,840.



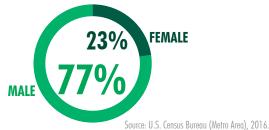
5,000 10,000 15,000 20,000 25,000 30,000 35,000 40,000

Source: U.S. Census Bureau (City of Austin), 2016.

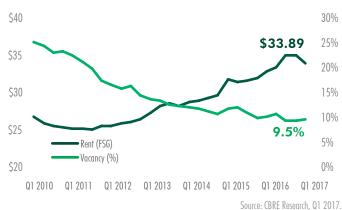
EDUCATIONAL ATTAINMENT



TECH TALENT DIVERSITY



OFFICE RENT & VACANCY TRENDS



HOUSING & RELATIVE COSTS* (US = 100%)



AVERAGE APT. RENT: \$1,201 PER UNIT/MO. 23% INCREASE SINCE 2010

*Austin Metro Area Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
Newgistics	7171 Southwest Pkwy	42,576
Kingsisle Entertainment	301 Sundance Pkwy	20,871
Broadway Technology	5000 Plaza On The Lake	17,823
Maxim Integrated Products, Inc	3900 N Capital of Texas Hwy	12,828
Lithium Technologies	6850 Austin Center Blvd	12,069

Source: CBRE Research (Office Market), 2017.

START-UP PIPELINE

Top Regional	Company	Capital Raised
Universities	Count	(Millions)
University of Texas	511	\$4.763

VC-Funded Companies Founded by Alumni of Top Regional Universities:

Zalora, Apollo Endosurgery, Dermira, AirStrip Technologies, Skyonic

Source: Pitchbook, 2017.

9 Boston, MA

57.57

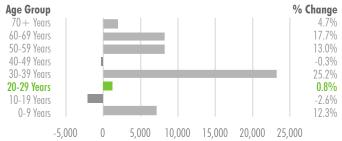
EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	115,560	11.4%	\$103,979	9.0%
	47,840	16.2%	\$108,200	7.2%
	43,900	12.3%	\$88,219	11.1%
	11,200	12.4%	\$154,700	10.1%
	12,620	-6.7%	\$97,790	6.9%
TOTAL NON-TECH OCCUPATIONS Sales Administrative & Office Support Business Operations & Finance Marketing	233,080	9.2%	\$68,434	13.0%
	28,040	22.4%	\$92,103	5.8%
	133,470	6.9%	\$55,668	16.9%
	50,080	4.0%	\$86,023	7.6%
	21,490	23.2%	\$75,852	16.3%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 1,266 (0.8%) since 2010. That's 2.6% of total growth in a population of 669,469.

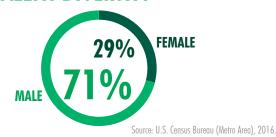


Source: U.S. Census Bureau (City of Boston), 2016.

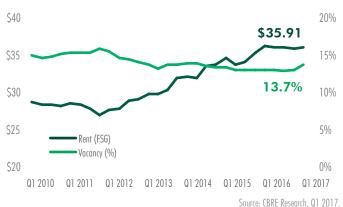
EDUCATIONAL ATTAINMENT



TECH TALENT DIVERSITY



OFFICE RENT & VACANCY TRENDS



HOUSING & RELATIVE COSTS* (US=100%)



AVERAGE APT. RENT: \$2,154 PER UNIT/MO. 20% INCREASE SINCE 2011 *Boston Metro Area Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
Confidential	235 Summer St	144,500
Confidential	120 Turnpike Rd	82,000
Kayak Software	10 Canal Pk	54,000
Zensar Technologies (Akibia)	4 Technology Dr	40,700
Desktop Metal	63 Third Ave	40,000

Source: CBRE Research (Office Market), 2017.

START-UP PIPELINE

Top Regional Universities	Company Count	Capital Raised (Millions)
MIT	695	\$12,874
Harvard	673	\$17,204
Boston University	257	\$3,955
Tufts University	200	\$2,713
University of Massachusetts	210	\$2,683

VC-Funded Companies Founded by Alumni of Top Regional Universities:

Oscar, Dropbox, Human Longevity, Gilt, Humacyte, Coupang, Cloudera, BabyTree, Zenefits, Affirm

10 Dallas/Ft. Worth, TX

55.40

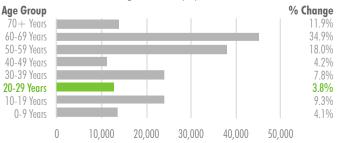
EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	161,150	33.4%	\$93,339	8.9%
	49,410	18.4%	\$102,199	9.8%
	84,750	58.3%	\$83,579	15.8%
	8,220	4.3%	\$156,805	1.5%
	18,770	6.2%	\$86,285	9.8%
TOTAL NON-TECH OCCUPATIONS Sales Administrative & Office Support Business Operations & Finance Marketing	468,280	23.7%	\$57,504	16.2%
	50,010	46.5%	\$68,773	-6.5%
	321,730	17.0%	\$49,983	20.3%
	72,600	37.7%	\$78,353	10.1%
	23,940	43.1%	\$71,814	14.9%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 12,757 (3.8%) since 2010. That's 6.7% of total growth in a population of 2,137,051.

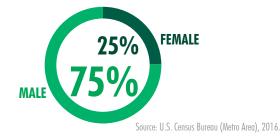


Source: U.S. Census Bureau (Cities of Dallas and Ft. Worth), 2016.

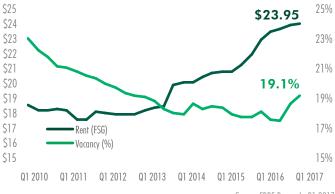
EDUCATIONAL ATTAINMENT



TECH TALENT DIVERSITY



OFFICE RENT & VACANCY TRENDS



Source: CBRE Research, Q1 2017.

HOUSING & RELATIVE COSTS* (US=100%)



AVERAGE APT. RENT: \$1,094 PER UNIT/MO. 26% INCREASE SINCE 2011 *Dallas/Ft. Worth Metro Area Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

TOP TECH OFFICE DEALS (2016/2017)

Tenant	Address	Sq. Ft.
NTT Data	7950 Legacy Dr	126,715
CyrusOne LLC	2101 Cedar Springs Rd	30,137
IBM	3010 Gayord Pkwy	26,656
Check Point Software Technologies	6330 Commerce Dr	24,807
Markit On Demand	5575 Flatiron Pkwy	96,267

Source: CBRE Research (Office Market), 2017.

START-UP PIPELINE

Top Regional	Company	Capital Raised
Universities	Count	(Millions)
University of Texas	511	\$4.763

VC-Funded Companies Founded by Alumni of Top Regional Universities:

Zalora, Apollo Endosurgery, Dermira, AirStrip Technologies, Skyonic

Source: Pitchbook, 2017.

11 Baltimore, MD

$55.\overset{\text{SCORE}}{28}$

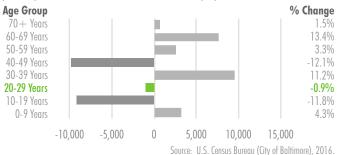
EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	72,710 20,010 39,560 4,380 8,760	35.2% 30.3% 48.8% -1.6% 18.7%	\$98,824 \$100,572 \$93,051 \$142,690 \$98,966	12.0% 1.7% 18.2% 20.1% 21.3%
TOTAL NON-TECH OCCUPATIONS Sales Administrative & Office Support Business Operations & Finance Marketing	172,380 19,330 114,720 29,610 8,720	13.8% 95.8% 3.8% 18.4% 44.6%	\$55,695 \$75,707 \$46,502 \$76,804 \$60,595	11.1% 7.2% 7.6% 9.5% 0.1%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s declined by 1,012 (-0.9%) since 2010. That's -79.9% in a population of 621,849.



EDUCATIONAL ATTAINMENT



(2014-2015) Baltimore Metro Are		Growth 2011-15
TOTAL TECH DEGREES	3,431	29.1%
Computer Engineering	2,113	30.1%
Math/Statistics	446	28.5%
Other Tech Engineering	872	27.1%
Source: The National Center	for Educat	inn Statistics

(Region), July 2016.

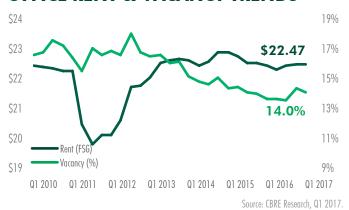
DEGREE COMPLETIONS

TECH TALENT DIVERSITY



Source: U.S. Census Bureau (Metro Area), 2016.

OFFICE RENT & VACANCY TRENDS



HOUSING & RELATIVE COSTS* (US=100%)



AVERAGE APT. RENT: \$1,255 PER UNIT/MO. 10% INCREASE SINCE 2011 *Baltimore Metro Area Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

TOP TECH OFFICE DEALS (2016/2017)

Tenant	Address	Sq. Ft.
PayPal	9690 Deereco Rd	59,824
Skyline Network Engineering	6956 Aviation Blvd	28,753
PayPal	101 Schilling Rd	28,021
Enlighten IT	991 Corporate Blvd	21,090
Ventech	21 Governors Ct	16,000

Source: CBRE Research (Office Market), 2017.

START-UP PIPELINE

Top Regional Universities	Company Count	Capital Raised (Millions)
University of Maryland	267	\$3,169
Georgetown	222	\$3,186

VC-Funded Companies Founded by Alumni of Top Regional Universities:

N/A

12 Denver, CO

53.37

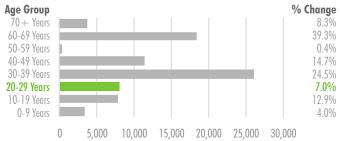
EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	77,310 27,750 38,050 4,290 7,220	29.0% 24.3% 37.3% 26.9% 10.6%	\$100,383 \$109,127 \$88,099 \$164,730 \$93,279	19.9% 19.7% 19.8% 28.0% 19.3%
TOTAL NON-TECH OCCUPATIONS Sales Administrative & Office Support Business Operations & Finance Marketing	189,160 25,180 111,150 37,920 14,910	15.3% 69.6% 4.6% 16.8% 42.1%	\$59,194 \$81,514 \$45,980 \$78,916 \$69,844	17.3% 10.7% 17.4% 8.2% 11.9%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

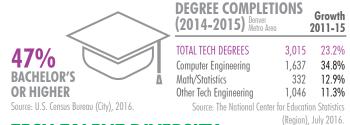
POPULATION TRENDS

The population of millennials in their 20s grew by 7,941 (7.0%) since 2010. That's 10.2% of total growth in a population of 682,545.



Source: U.S. Census Bureau (City of Denver), 2016.

EDUCATIONAL ATTAINMENT



TECH TALENT DIVERSITY



OFFICE RENT & VACANCY TRENDS



Source: CBRE Research, Q1 2017.

HOUSING & RELATIVE COSTS* (US=100%)



AVERAGE APT. RENT: \$1,395 PER UNIT/MO. 39% INCREASE SINCE 2011 *Denver Metro Area Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
Vertafore	999 18th St	62,179
Confidential	7595 Technology Way	29,907
Cisco Systems	9155 East Nichols Ave	25,944
RingCentral	8005 South Chester St	19,074
SAIC	105 Technology Dr	18,937

Source: CBRE Research (Office Market), 2017.

START-UP PIPELINE

Top Regional	VC-Backed Firms	Capital Raised
Universities	Founded Since 2010	(Millions)
University of Colorado	265	\$3 470

VC-Funded Companies Founded by Alumni of Top Regional Universities:

N/A

Source: Pitchbook, 2017.

13 Newark, NJ

52.55

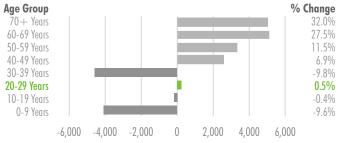
EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	52,600 18,910 24,070 5,340 4,280	16.5% 13.2% 25.6% -2.4% -3.7%	\$107,612 \$104,276 \$95,513 \$177,500 \$103,198	11.1% 6.7% 19.4% 15.9% 8.9%
TOTAL NON-TECH OCCUPATIONS Sales Administrative & Office Support Business Operations & Finance Marketing	142,050 15,420 96,920 21,250 8,460	3.5% 12.9% 0.9% -0.8% 20.9%	\$54,039 \$85,947 \$39,544 \$87,841 \$77,031	4.4% -16.7% 8.9% 6.5% 15.8%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

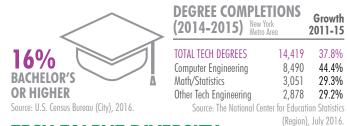
POPULATION TRENDS

The population of millennials in their 20s grew by 223 (0.5%) since 2010. That's 4.8% of total growth in a population of 281,913.

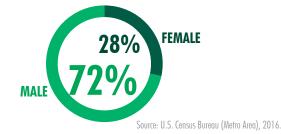


Source: U.S. Census Bureau (City of Newark), 2016.

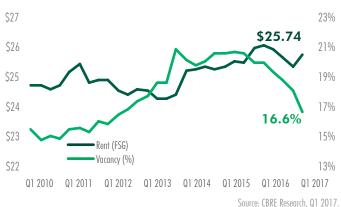
EDUCATIONAL ATTAINMENT



TECH TALENT DIVERSITY



OFFICE RENT & VACANCY TRENDS



HOUSING & RELATIVE COSTS* (US=100%)



AVERAGE APT. RENT: \$1,732 PER UNIT/MO. 12.1% INCREASE SINCE 2011 *Newark Metro Area Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
Confidential	33 Washington St	24,692
Appeagle	10 Exchange PI	12,960
Combustion Innovation Group	695 Route 46 W	12,882
Mediaocean	777 Terrace Ave	12,428
The FORT Group	100 Challenger Rd	11,500

Source: CBRE Research (Office Market), 2017.

START-UP PIPELINE

Top Regional Universities	Company Count	Capital Raised (Millions)
Princeton	382	\$6,976
Columbia	347	\$4,995
NYU	307	\$2,682

VC-Funded Companies Founded by Alumni of Top Regional Universities:

Jet, Demand Media, AppNexus, Harvest Power, Mosaic (Residential Solar Lending Platform)

14 Orange County, CA

51.87

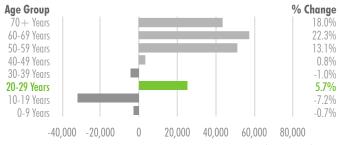
EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers/Programmers	68,220	23.2%	\$99,256	10.7%
	25,360	24.9%	\$109,418	13.6%
Computer Support, Database & Systems	27,230	40.4%	\$81,692	12.5%
Computer & Infor. Systems Managers	4,920	19.4%	\$142,830	
Technology Engineering-Related TOTAL NON-TECH OCCUPATIONS	10,710	-7.3%	\$99,831	9.9%
	199.600	11.1%	\$56.534	5.9%
Sales Administrative & Office Support	25,180	7.7%	\$75,918	-1.0%
	127,920	7.0%	\$45,817	4.5%
Business Operations & Finance	30,830	20.9%	\$78,929	9.4%
Marketing	15,670	40.8%	\$68,816	7.8%
			4	

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 25,188 (5.7%) since 2010. That's 16.7% of total growth in a population of 3,169,776.

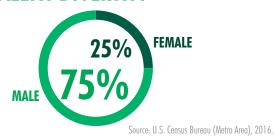


Source: U.S. Census Bureau (Orange County), 2016.

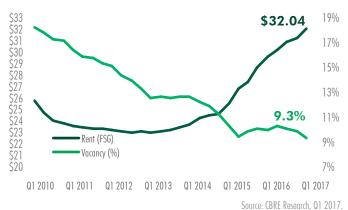
EDUCATIONAL ATTAINMENT



TECH TALENT DIVERSITY



OFFICE RENT & VACANCY TRENDS



HOUSING & RELATIVE COSTS* (US=100%)



AVERAGE APT. RENT: \$1,986 PER UNIT/MO. 19% INCREASE SINCE 2011 *Santa Ana Metro Div Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
Kelley Blue Book	189, 195 & 217 Technology Dr	146,970
Toshiba America	5231-5241 California	96,352
Toshiba America	25530 Commercentre Dr	70,558
Blizzard Entertainment	15253 Bake Pky	65,006
Qualcomm	3347 Michelson Dr	25,968

Source: CBRE Research (Office Market), 2017.

START-UP PIPELINE

Top Regional Universities	Company Count	Capital Raised (Millions)
University of California Los Angeles	406	\$6,988
University of Southern California	341	\$3.476

VC-Funded Companies Founded by Alumni of Top Regional Universities:

BabyTree, BrightSource Energy, Demand Media, The Honest Company, Hortonworks, Lookout, Instacart, CrowdStrike, Moda Operandi, Crescendo Bioscience

Source: Pitchbook, 2017.

15 Chicago, IL

51.78

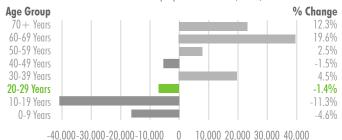
EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	143,190	32.8%	\$91,200	11.8%
	44,390	7.9%	\$95,180	7.7%
	77,120	74.7%	\$82,131	19.1%
	11,410	11.0%	\$140,050	21.5%
	10,270	-16.2%	\$87,830	15.1%
TOTAL NON-TECH OCCUPATIONS Sales Administrative & Office Support Business Operations & Finance Marketing	442,650	7.5%	\$55,496	8.9%
	46,910	10.1%	\$70,887	-2.6%
	298,130	2.7%	\$47,574	10.2%
	70,330	25.5%	\$76,475	6.8%
	27,280	18.5%	\$61,519	5.3%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s declined by 6,820 (-1.4%) since 2010. That's -31.4% in a population of 2,720,556.



Source: U.S. Census Bureau (City of Chicago), 2016.

EDUCATIONAL ATTAINMENT



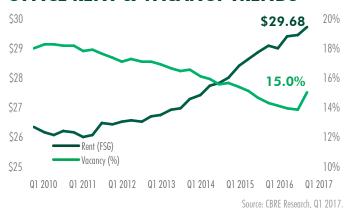
DEGREE COMPLE (2014-2015) Chicago Metro		Growth 2011-15
TOTAL TECH DEGREES Computer Engineering	6,728 4,514	13.6% 13.8%
Math/Statistics	1,063	3.3%
Other Tech Engineering	1,151	23.9%
Source: The National Cen	ter for Educati	ion Statistics
	(Region)	, July 2016.

TECH TALENT DIVERSITY



Source: U.S. Census Bureau (Metro Area), 2016.

OFFICE RENT & VACANCY TRENDS



HOUSING & RELATIVE COSTS* (US=100%)



AVERAGE APT. RENT: \$1,512 PER UNIT/MO. 21% INCREASE SINCE 2011 *Chicago Metro Area Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

TOP TECH OFFICE DEALS (2016/2017)

Tenant	Address	Sq. Ft.
Outcome Health	515 N State St	393,763
Paylocity Corporation	1400 American Ln	309,559
Echo Global Logistics	600 W Chicago Ave	224,678
Cars.com	300 S Riverside Plz	158,000
Expedia	500 W Madison St	96,980

Source: CBRE Research (Office Market), 2017.

START-UP PIPELINE

Top Regional Universities	Company Count	Capital Raised (Millions)
University of Illinois	415	\$5,462
Northwestern	259	\$3,385

VC-Funded Companies Founded by Alumni of Top Regional Universities:

Avant, Affirm, ZocDoc, CRISPR Therapeutics, Otonomy

16 Vancouver, BC

51.40

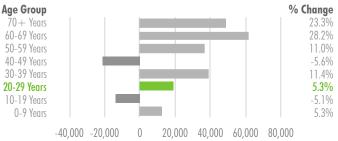
EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage*	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers & Programmers	65,100 22,000	36.8% 44.7%	\$79,402 \$79,518	12.8% 9.4%
Computer Support, Database & Systems	19,900	53.1%	\$75,046	18.0%
Computer & Infor. Systems Managers	6,500	71.1%	\$94,931	9.7%
Technology Engineering-Related	16,700	7.1%	\$78,395	12.2%
TOTAL NON-TECH OCCUPATIONS Sales Administrative & Office Support	124,700	18.8%	\$53,127	8.5%
	3,300	37.5%	\$31,574	7.3%
	68,900	8.5%	\$44,949	12.4%
Business Operations & Finance	33,800	17.8%	\$67,371	2.0%
Marketing	18,700	79.8%	\$61,318	0.4%

*in CAD; Source: Statistics Canada (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 19,138 (5.3%) since 2010. That's 10.5% of total growth in a population of 2,526,685.



Source: Environics Analytics (Vancouver Metro), 2016.

EDUCATIONAL ATTAINMENT

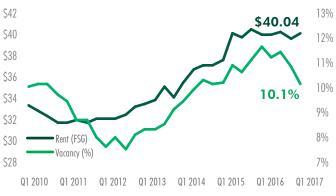


TECH TALENT DIVERSITY



Source: U.S. Census Bureau (Metro Area), 2016.

OFFICE RENT* & VACANCY TRENDS



*Rent in CAD; Source: CBRE Research, Q1 2017.

HOUSING & RELATIVE COSTS* (US=100%)



AVERAGE APT. RENT: \$1,313 PER UNIT/MO. 17% INCREASE SINCE 2010 *Vancouver Metro Area; Data in CAD Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
Hootsuite	2015 Main St	42,000
Visier	858 Beaty St	40,000
Image Engine	929 Granville St	38,000
Scanline VFX	580 Granville St	36,000
Thunderburd Games	123 W 7th St	35,000

Source: CBRE Research (Office Market), 2017.

START-UP PIPELINE

Top Regional	Company	Capital Raised
Universities	Count	(Millions)
University of British Columbia	159	\$1,010

VC-Funded Companies Founded by Alumni of Top Regional Universities:

N/A

Source: Pitchbook, 2017.

17 Phoenix, AZ

51.24

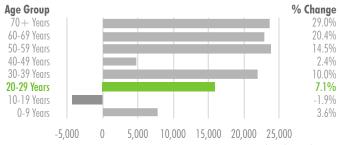
EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers/Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	83,140	33.5%	\$86,231	10.0%
	26,700	53.3%	\$90,673	1.8%
	44,720	59.3%	\$76,625	17.7%
	5,570	33.9%	\$141,870	26.1%
	6,150	-51.3%	\$86,401	5.4%
TOTAL NON-TECH OCCUPATIONS Sales Administrative & Office Support Business Operations & Finance Marketing	257,360	17.6%	\$48,315	2.5%
	25,160	24.3%	\$62,104	-10.4%
	186,510	17.7%	\$42,827	5.3%
	31,900	4.5%	\$63,546	4.8%
	13,790	42.0%	\$62,151	-2.5%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 15,919 (7.1%) since 2010. That's 14.0% of total growth in a population of 1,563,001.



Source: U.S. Census Bureau (City of Phoenix), 2016.

DEGREE COMPLETIONS

EDUCATIONAL ATTAINMENT



(2014-2015) Phoenix Metro Are	90	Growth 2011-15
TOTAL TECH DEGREES	4,744	18.9%
Computer Engineering	3,754	11.3%
Math/Statistics	189	2.2%
Other Tech Engineering	801	85.8%
Course The National Conto	for Educat	ion Ctatistics

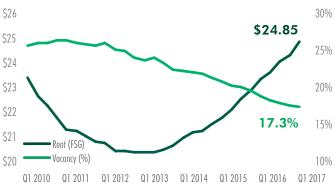
e: The National Center for Education Statistics . ___ (Region), July 2016.

TECH TALENT DIVERSITY



Source: U.S. Census Bureau (Metro Area), 2016.

OFFICE RENT & VACANCY TRENDS



Source: CBRE Research, Q1 2017.

HOUSING & RELATIVE COSTS* (US=100%)



AVERAGE APT. RENT:
\$956 PER UNIT/MO.
26% INCREASE SINCE 2011

*Phoenix Metro Area Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
Endurance International Group	1500 N Priest Dr	71,618
Scientific Technologies Corporation	411 S 1st St	26,174
Indeed	4343 N Scottsdale Rd	24,398
Opendoor	6360 E Thomas Rd	12,546
Safe Streets USA	5710 W Chandler Blvd	12,394

Source: CBRE Research (Office Market), 2017.

START-UP PIPELINE

Top Regional	Company	Capital Raised
Universities	Count	(Millions)
University of Arizona	168	\$1.938

VC-Funded Companies Founded by Alumni of Top Regional Universities:

N/A

18 Minneapolis/St. Paul, MN 51.06

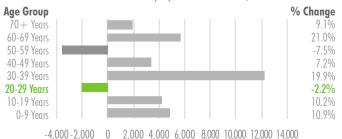
EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers	95,220 28,630 50,330 8,530	25.5% 28.4% 36.8% 4.2%	\$91,686 \$94,747 \$82,078 \$142,000	11.8% 6.7% 17.0% 18.0%
Technology Engineering-Related	7,730	-10.0%	\$87,380	10.9%
TOTAL NON-TECH OCCUPATIONS Sales Administrative & Office Support Business Operations & Finance Marketing	239,390 25,260 149,680 44,830 19,620	15.6% 19.0% 10.5% 27.9% 27.5%	\$56,509 \$82,020 \$46,245 \$72,194 \$66,128	10.7% 16.6% 7.5% 9.7% 7.4%
mulkolling	17,020	21.370	200,120	7.770

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

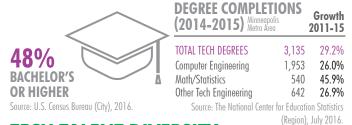
POPULATION TRENDS

The population of millennials in their 20s declined by 2,048 (-2.2%) since 2010. That's -7.4% in a population of 410,935.

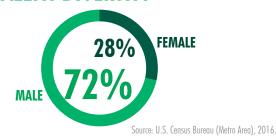


Source: U.S. Census Bureau (City of Minneapolis), 2016.

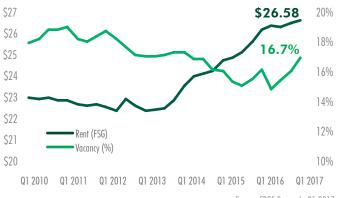
EDUCATIONAL ATTAINMENT



TECH TALENT DIVERSITY



OFFICE RENT & VACANCY TRENDS



Source: CBRE Research, Q1 2017.

HOUSING & RELATIVE COSTS* (US=100%)



AVERAGE APT. RENT: \$1,262 PER UNIT/MO. 19% INCREASE SINCE 2011 *Minneapolis Metro Area Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
Confidential	316 3rd Ave N	103,083
Mobile Soft	120 S 6th St	31,590
Eaton Cooper Power Systems	3033 Campus Dr	28,404
Magenic Technologies	1600 Utica Ave	26,588
EXB Solutions	12755 Hwy 55	10,120

Source: CBRE Research (Office Market), 2017.

START-UP PIPELINE

Top Regional	Company	Capital Raised
Universities	Count	(Millions)
University of Minnesota	181	\$3.089

VC-Funded Companies Founded by Alumni of Top Regional Universities:

N/A

Source: Pitchbook, 2017.

19 San Diego, CA

50.83

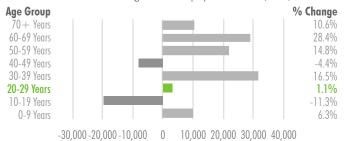
EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers/Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	66,340	27.7%	\$100,258	13.3%
	23,870	29.9%	\$102,872	7.5%
	23,620	30.5%	\$84,166	16.0%
	4,160	16.9%	\$162,620	21.0%
	14,690	23.1%	\$104,224	18.5%
TOTAL NON-TECH OCCUPATIONS Sales Administrative & Office Support Business Operations & Finance Marketing	158,040	9.6%	\$52,893	-0.4%
	17,180	20.0%	\$66,958	-9.4%
	106,510	6.2%	\$43,758	-3.5%
	22,300	8.8%	\$78,157	6.8%
	12,050	32.1%	\$66,827	10.5%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 3,070 (1.1%) since 2010. That's 3.7% of total growth in a population of 1,394,907.



Source: U.S. Census Bureau (City of San Diego), 2016.

EDUCATIONAL ATTAINMENT

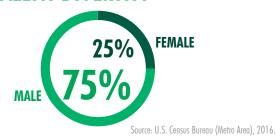


(2014-2015) San Diego Metro Area		Growth 2011-15
TOTAL TECH DEGREES	2,734	22.9%
Computer Engineering	1,634	27.4%
Math/Statistics	378	8.0%
Other Tech Engineering	722	22.0%
Source: The National Center f	or Educat	inn Statistics

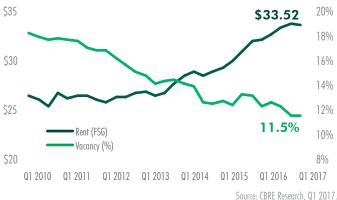
(Region), July 2016.

DEGREE COMPLETIONS

TECH TALENT DIVERSITY



OFFICE RENT & VACANCY TRENDS



HOUSING & RELATIVE COSTS* (US=100%)



AVERAGE APT. RENT: \$1,895 PER UNIT/MO. 25% INCREASE SINCE 2011 *San Diego Metro Area Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
Broadcom	16340-16470 Brenardo Dr	90,610
ServiceNow	4820 Eastgate Mall	63,532
XIFIN Inc	12225 El Camino Real	44,121
Psyonix	401 W A St	39,127
SmartDrive	4790 Eastgate Mall	38,807

Source: CBRE Research (Office Market), 2017.

START-UP PIPELINE

Top Regional Universities	Company Count	Capital Raised (Millions)
University of California San Diego	288	\$3,424
University of California Los Angeles	406	\$6,988

VC-Funded Companies Founded by Alumni of Top Regional Universities:

N/A

20 Portland, OR

49.88

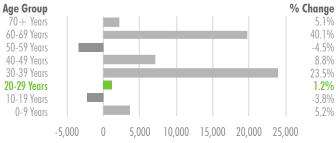
EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers/Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	50,880	40.4%	\$90,040	12.9%
	20,410	92.4%	\$94,990	7.6%
	21,320	38.0%	\$77,554	11.8%
	4,160	46.5%	\$132,420	16.3%
	4,990	-31.9%	\$87,805	15.3%
TOTAL NON-TECH OCCUPATIONS Sales Administrative & Office Support Business Operations & Finance Marketing	129,530	15.5%	\$51,674	6.3%
	11,680	12.2%	\$68,977	-13.2%
	88,590	11.5%	\$44,216	11.5%
	19,620	18.6%	\$68,998	2.8%
	9,640	66.8%	\$63,992	1.4%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 1,182 (1.2%) since 2010. That's 2.5% of total growth in a population of 632,187.

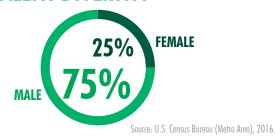


Source: Environics Analytics (City of Portland), 2016.

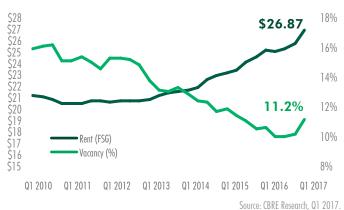
EDUCATIONAL ATTAINMENT



TECH TALENT DIVERSITY



OFFICE RENT & VACANCY TRENDS



HOUSING & RELATIVE COSTS* (US=100%)



AVERAGE APT. RENT: \$1,370 PER UNIT/MO. 39% INCREASE SINCE 2011 *Portland Metro Area Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

TOP TECH OFFICE DEALS (2016/2017)

Tenant	Address	Sq. Ft.
Autodesk	17 SE 3rd Street	108,750
Simple	120 SE Clay St	53,000
D + H	1320 SW Broadway	45,600
Expensify	401 SW 5th Ave	24,400
Cloudability	334 NW 11th Avenue	22,600

Source: CBRE Research (Office Market), 2017.

START-UP PIPELINE

Top Regional	Company	Capital Raised
Universities	Count	(Millions)
N/A	N/A	N/A

VC-Funded Companies Founded by Alumni of Top Regional Universities:

N/A

Source: Pitchbook, 2017.

21 Detroit, MI

49.34

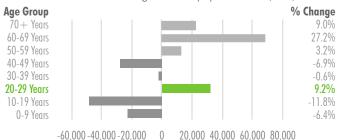
EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	78,510 24,500 36,960 5,080 11,970	40.7% 38.3% 36.0% 54.9% 56.9%	\$83,482 \$85,165 \$76,437 \$135,517 \$79,709	9.4% 7.7% 18.2% -13.2% 3.6%
TOTAL NON-TECH OCCUPATIONS Sales Administrative & Office Support Business Operations & Finance Marketing	229,180 21,940 163,050 31,110 13,080	18.9% 71.8% 13.8% 11.1% 50.5%	\$54,098 \$75,798 \$46,090 \$75,322 \$67,047	8.2% -3.0% 5.7% 13.7% 8.7%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 32,028 (9.2%) since 2010. That's 113.5% of total growth in a population of 2,784,268.



Source: U.S. Census Bureau (City of Detroit and Macomb/Oakland Counties), 2016.

EDUCATIONAL ATTAINMENT



(2014-2015) Detroit Metro Are		Growth 2011-15
TOTAL TECH DEGREES	4,608	21.0%
Computer Engineering	2,233	35.1%
Math/Statistics	591	31.3%
Other Tech Engineering	1,784	4.6%
Source: The National Center	r for Educat	ion Statistics

(Region), July 2016.

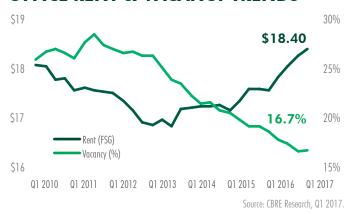
DECDEE COMPLETIONS

TECH TALENT DIVERSITY



Source: U.S. Census Bureau (Metro Area), 2016.

OFFICE RENT & VACANCY TRENDS



HOUSING & RELATIVE COSTS* (US=100%)



AVERAGE APT. RENT:
\$958 PER UNIT/MO.
18% INCREASE SINCE 2011

*Detroit Metro Area Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

TOP TECH OFFICE DEALS (2016/2017)

Tenant	Address	Sq. Ft.
Confidential	1 Campus Martius Ave	40,000
Tyco Electronics	900 Wilshire Dr	15,954
HERE	400 Galleria	52,000
Netlink	6322 Progress Dr	32,120
EWI Worldwide	27777 Inkster Rd	31,428

Source: CBRE Research (Office Market), 2017.

START-UP PIPELINE

Top Regional	Company	Capital Raised
Universities	Count	(Millions)
University of Michigan	546	\$7.767

VC-Funded Companies Founded by Alumni of Top Regional Universities:

Groupon, Medalia, Twilio, 23andMe, Calera

22 Philadelphia, PA

49.17

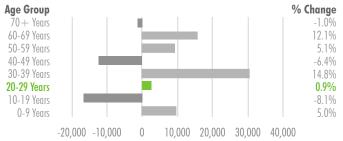
EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers/Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers	77,700 26,910 39,310 5,530	27.1% 32.6% 30.5% 34.9%	\$93,551 \$97,300 \$82,372 \$161,270	9.6% 5.7% 10.8% 14.8%
Technology Engineering-Related	5,950	-10.3%	\$87,505	8.0%
TOTAL NON-TECH OCCUPATIONS Sales Administrative & Office Support Business Operations & Finance	261,650 25,610 174,970 41,910	5.8% 42.1% 0.7% 5.5%	\$56,773 \$80,864 \$46,669 \$78,841	4.0% 1.7% -0.1% 6.5%
Marketing	19,160	20.5%	\$68,571	7.1%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 2,655 (0.9%) since 2010. That's 6.8% of total growth in a population of 1,567,442.

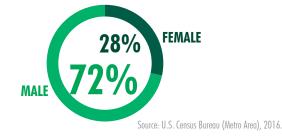


Source: U.S. Census Bureau (City of Philadelphia), 2016.

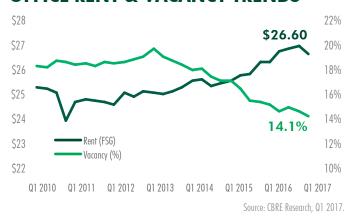
EDUCATIONAL ATTAINMENT



TECH TALENT DIVERSITY



OFFICE RENT & VACANCY TRENDS



HOUSING & RELATIVE COSTS* (US=100%)



AVERAGE APT. RENT: \$1,278 PER UNIT/MO. 8% INCREASE SINCE 2011 *Philadelphia Metro Area Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
Cotiviti	785 Arbor Way	86,620
DecisionOne	640 Lee Rd	25,570
Freedom Pay	2929 Walnut St	24,813
TargetX	1001 E Hector Rd	10,787
The Neat Company	1500 Jonh F Kennedy Blvd	6,000

Source: CBRE Research (Office Market), 2017.

START-UP PIPELINE

Top Regional Universities	VC-Backed Firms Founded Since 2010	Capital Raised (Millions)
University of Pennsylvania	648	\$9,475
Penn State	236	\$2 180

VC-Funded Companies Founded by Alumni of Top Regional Universities:

Zynga, Flatiron Health, ZocDoc, Fuze, SolarCity

Source: Pitchbook, 2017.

23 Salt Lake City, UT

49.12

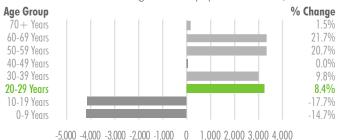
EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers/Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	31,750	45.3%	\$82,803	13.2%
	12,130	59.0%	\$91,508	8.0%
	13,440	29.6%	\$68,594	13.5%
	2,810	111.3%	\$108,170	-5.2%
	3,370	33.7%	\$86,983	26.5%
TOTAL NON-TECH OCCUPATIONS Sales Administrative & Office Support Business Operations & Finance Marketing	105,970	18.8%	\$47,138	8.0%
	12,440	20.0%	\$63,018	1.7%
	73,770	17.2%	\$39,671	9.3%
	13,790	20.3%	\$67,906	5.8%
	5,970	33.9%	\$58,340	11.6%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 3,246 (8.4%) since 2010. That's 59.6% of total growth in a population of 192,660.



Source: U.S. Census Bureau (City of Salt Lake City), 2016.

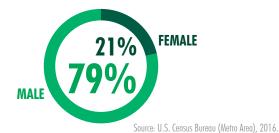
EDUCATIONAL ATTAINMENT



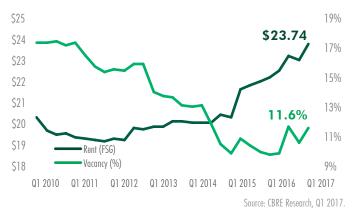
DEGREE COMI (2014-2015)		Growth 2011-15
TOTAL TECH DEGREES	3,586	91.0%
Computer Engineering	2,856	127.6%
Math/Statistics	316	45.0%
Other Tech Engineering	g 414	2.5%
Source: The Nationa	al Center for Educat	ion Statistics

(Region), July 2016.

TECH TALENT DIVERSITY



OFFICE RENT & VACANCY TRENDS



HOUSING & RELATIVE COSTS* (US=100%)



AVERAGE APT. RENT: \$1,044 PER UNIT/MO. 28% INCREASE SINCE 2011 *Salt Lake City Metro Area Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

TOP TECH OFFICE DEALS (2016/2017)

Tenant	Address	Sq. Ft.
U of Utah Information Tech Services	102 S 200 E	140,000
Lucid Software	10355 S South Jordan Parkway	90,000
Connexion Point	9500 S 300 W	75,000
Imagine Learning	400 Qualtrics Dr	75,000
Instructure	Pleasant Grove Blvd	65,000

Source: CBRE Research (Office Market), 2017.

START-UP PIPELINE

Top Regional	Company	Capital Raised
Universities	Count	(Millions)
Briaham Youna	255	\$3.692

VC-Funded Companies Founded by Alumni of Top Regional Universities:

N/A

24 Los Angeles, CA

47.08

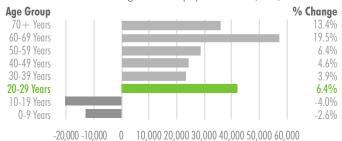
EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	126,730	19.0%	\$95,617	6.8%
	43,480	19.3%	\$102,811	6.4%
	58,990	29.4%	\$82,740	13.2%
	8,910	-4.9%	\$156,740	15.2%
	15,350	1.8%	\$89,244	-4.1%
TOTAL NON-TECH OCCUPATIONS Sales Administrative & Office Support Business Operations & Finance Marketing	516,190	9.7%	\$56,099	10.4%
	49,690	33.1%	\$72,067	3.0%
	346,230	4.0%	\$46,575	10.8%
	77,920	11.9%	\$81,243	6.4%
	42,350	39.0%	\$68,961	6.3%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 41,973 (6.4%) since 2010. That's 24% of total growth in a population of 3,971,896.

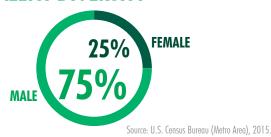


Source: U.S. Census Bureau (City of Los Angeles), 2016.

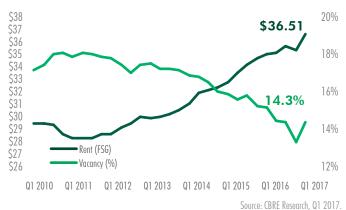
EDUCATIONAL ATTAINMENT



TECH TALENT DIVERSITY



OFFICE RENT & VACANCY TRENDS



HOUSING & RELATIVE COSTS* (US=100%)



AVERAGE APT. RENT: \$2,214 PER UNIT/MO. 24% INCREASE SINCE 2011 *Los Angeles Metro Area Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
Farfetch.com	700 S Flower St	24,750
Honey Science Corporation	990 W 8th St	23,305
Interactive Data Corp	2901 28th St	22,877
Connexity	2120 Colorado Ave	20,933
Upload VR	4505 Glencoe Ave	20,000

Source: CBRE Research (Office Market), 2017.

START-UP PIPELINE

Top Regional Universities	Company Count	Capital Raised (Millions)
University of California Los Angeles	406	\$6,988
University of Southern California	341	\$3.476

VC-Funded Companies Founded by Alumni of Top Regional Universities:

BabyTree, BrightSource Energy, Demand Media, The Honest Company, Hortonworks, Lookout, Instacart, CrowdStrike, Moda Operandi, Crescendo Bioscience

Source: Pitchbook. 2017.

25 Madison, WI

46.91

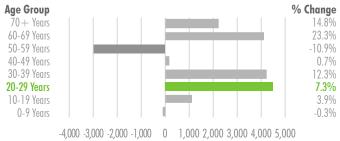
EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers/Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	23,350 9,490 10,860 1,600 1,400	51.2% 115.2% 31.0% 8.1% 11.1%	\$77,773 \$79,344 \$70,379 \$117,370 \$79,218	8.8% -2.1% 13.8% 19.5% 13.6%
TOTAL NON-TECH OCCUPATIONS Sales Administrative & Office Support Business Operations & Finance Marketing	48,420 3,470 31,840 8,570 4,540	15.9% 1.5% 8.3% 36.2% 70.7%	\$54,052 \$72,705 \$48,480 \$64,394 \$59,354	13.5% 2.7% 15.8% 9.2% 8.7%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 4,490 (7.3%) since 2010. That's 29.6% of total growth in a population of 248,956.



Source: U.S. Census Bureau (City of Madison), 2016.

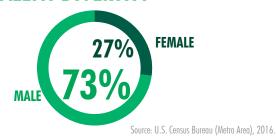
EDUCATIONAL ATTAINMENT



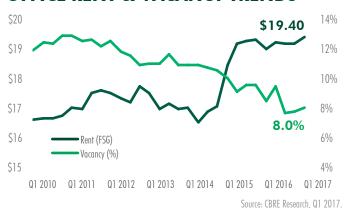
DEGREE COMPLE (2014-2015) Madiss Metro		Growth 2011-15
TOTAL TECH DEGREES	1,592	31.6%
Computer Engineering	692	51.1%
Math/Statistics	293	55.9%
Other Tech Engineering	607	7.6%
Source: The National Cen	ter for Educat	ion Statistics

(Region), July 2016.

TECH TALENT DIVERSITY



OFFICE RENT & VACANCY TRENDS



HOUSING & RELATIVE COSTS* (US=100%)



AVERAGE APT. RENT: \$1,137 PER UNIT/MO. 17% INCREASE SINCE 2011 *Madison Metro Area Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
Performance Gateway	2418 Crossroads Dr	5,533
ScheduleSoft	301 S Blount St	3,861
Stealthbits	555 D'Onofrio Dr	3,094

Source: CBRE Research (Office Market), 2017.

START-UP PIPELINE

N/A

VC-Funded Companies Founded by Alumni of Top Regional Universities:

N/A

26 Charlotte, NC

$46.\overset{\text{SCORE}}{29}$

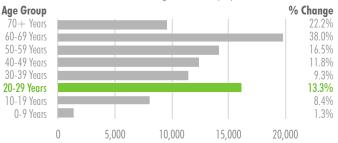
EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH OCCUPATIONS Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	49,830	77.1%	\$93,105	8.0%
	15,250	73.1%	\$98,688	9.1%
	26,650	103.1%	\$80,861	10.4%
	4,800	31.1%	\$143,110	10.6%
	3,130	22.7%	\$93,464	22.8%
TOTAL NON-TECH OCCUPATIONS Sales Administrative & Office Support Business Operations & Finance Marketing	137,390	29.7%	\$51,879	10.9%
	14,980	54.3%	\$70,676	9.4%
	97,150	32.1%	\$42,711	12.5%
	22,020	28.8%	\$78,916	12.4%
	3,240	-41.8%	\$56,111	-7.2%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 16,123 (13.3%) since 2010. That's 17.4% of total growth in a population of 827,121.

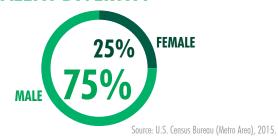


Source: U.S. Census Bureau (City of Charlotte), 2016.

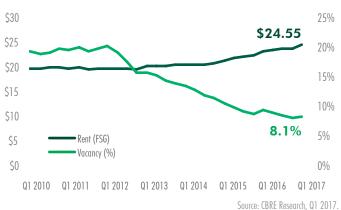
EDUCATIONAL ATTAINMENT



TECH TALENT DIVERSITY



OFFICE RENT & VACANCY TRENDS



HOUSING & RELATIVE COSTS* (US=100%)



AVERAGE APT. RENT: \$1,032 PER UNIT/MO. 24% INCREASE SINCE 2011 *Charlotte Metro Area Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
AvidXchange	935 Hamilton St	200,000
Fidelity Information Services	2359 Perimeter Pointe Pkwy	23,196
IBM	10925 David Taylor Dr	21,461
FANUC America	13425 W Reese Blvd	21,217
Comp Tech Systems	3426 Toringdon Way	7,364

Source: CBRE Research (Office Market), 2017.

START-UP PIPELINE

N/A

VC-Funded Companies Founded by Alumni of Top Regional Universities:

N/A

Source: Pitchbook, 2017.

27 Tampa, FL

EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH TALENT Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	45,340	55.3%	\$78,434	6.2%
	14,220	39.0%	\$85,872	7.1%
	25,340	81.3%	\$68,996	5.2%
	2,210	33.1%	\$145,440	15.4%
	3,570	7.2%	\$74,321	17.8%
TOTAL NON-TECH TALENT Sales Administrative & Office Support Business Operations & Finance Marketing	191,860	20.9%	\$45,918	10.9%
	19,530	16.5%	\$63,874	1.4%
	140,720	23.1%	\$38,953	13.3%
	23,250	5.4%	\$67,512	14.0%
	8,360	48.2%	\$61,162	22.2%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 3,673 (6.3%) since 2010. That's 11.4% of total growth in a population of 369,028.

Source: U.S. Census Bureau (City of Tampa), 2016.

OFFICE RENT & VACANCY TRENDS

Asking Rent: \$22.67 PSF (up 14.8%); Vacancy: 11.2% (down -920 bps) (Q1 2017 data with change since Q1 2012)

Source: CBRE Research (Office Market), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
Intelligent Software Solutions	5100 W Lemon St	4,196
Lockheed Martin	101 E Kennedy Blvd	2,721
Xcirca	410 S Ware Blvd	1,459

Source: CBRE Research (Office Market), 2017.

LABOR POOL

DEGREE COMPLET (2014-2015) Tampa Metro ard		Growth 2011-15
TOTAL TECH DEGREES Computer Engineering	1, 324 976	35.2% 47.2%
Math/Statistics Other Tech Engineering	119 229	43.4% -1.7%

Source: The National Center for Education Statistics (Region), July 2016.

EDUCATION ATTAINMENT



Source: U.S. Census Bureau (City), 2016.

TECH DIVERSITY



Source: U.S. Census Bureau (Metro Area), 2016.

(US = 100%)

HOUSING & RELATIVE COSTS*





AVERAGE APT. RENT: \$1,113 PER UNIT/MO. 23% INCREASE SINCE 2011

Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

28 Columbus, OH

45.17

EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH TALENT Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	48,230	12.9%	\$92,510	20.1%
	16,080	17.0%	\$100,410	22.2%
	25,700	14.2%	\$81,378	18.5%
	3,720	11.0%	\$148,050	22.4%
	2,730	-12.5%	\$75.092	11.5%
TOTAL NON-TECH TALENT Sales Administrative & Office Support Business Operations & Finance Marketing	127,930	9.7%	\$50,909	5.0%
	11,740	21.4%	\$75,432	12.8%
	86,300	6.0%	\$42,129	0.6%
	21,770	15.9%	\$67,890	6.4%
	8,120	20.3%	\$63,237	6.8%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 10,423 (6.4%) since 2010. That's 17.6% of total growth in a population of 849,067.

Source: U.S. Census Bureau (City of Columbus), 2016.

OFFICE RENT & VACANCY TRENDS

Asking Rent: \$19.23 PSF (up 10.5%); Vacancy: 12.3% (down -590 bps) (Q1 2017 data with change since Q1 2012)

Source: CBRE Research (Office Market), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
Pillar Technology Group, LLC	711 N High St	25,000
BarkBox	445 N High St	12,976
Illumination Works, LLC	5550 Blazer Memorial Pkwy	4,545

Source: CBRE Research (Office Market), 2017.

LABOR POOL DECDEE COMPLETIONS

(2014-2015) Columbus Metro area	ONS	Growth 2011-15
TOTAL TECH DEGREES Computer Engineering Math/Statistics Other Tech Engineering	2,068 1,042 246 780	25.7% 30.3% 35.9% 17.5%

Source: The National Center for Education Statistics (Region), July 2016.

EDUCATION ATTAINMENT



Source: U.S. Census Bureau (City), 2016.

TECH DIVERSITY



(Metro Area), 2016...

HOUSING & RELATIVE COSTS* (US = 100%)





AVERAGE APT. RENT: \$874 PER UNIT/MO. 19% INCREASE SINCE 2011

*Columbus Metro Area

Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

29 Kansas City, MO

EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH TALENT Software Developers & Programmers Computer Support, Database & Systems	51,770 15,400 27,390	39.1% 29.3% 57.4%	\$83,024 \$88,117 \$73,572	8.7% 5.7% 8.2%
Computer & Infor. Systems Managers Technology Engineering-Related	3,730 5,250	54.8% -4.7%	\$128,370 \$85,178	20.0% 15.0%
TOTAL NON-TECH TALENT Sales Administrative & Office Support Business Operations & Finance	138,490 11,810 96,340 21,040	10.6% -2.2% 11.8% 4.3%	\$49,191 \$70,041 \$41,463 \$67,209	5.6% 2.2% 5.0% 10.9%
Marketing	9,300	36.2%	\$62,004	11.8%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 347 (0.5%) since 2010. That's 2.4% of total growth in a population of 475,361.

Source: U.S. Census Bureau (City of Kansas City), 2016.

OFFICE RENT & VACANCY TRENDS

Asking Rent: \$18.42 PSF (up 9.3%); Vacancy: 12.8% (down -480 bps) (Q1 2017 data with change since Q1 2012) Source: CBRE Research (Office Market), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
AutoAlert	114 W 11th St	45,000
Digital Evolution Group	6601 College Blvd	31,000
Vendor Credentialing	10950 Grandview Dr	23,830

Source: CBRE Research (Office Market), 2017.

LABOR POOL

DEGREE COMPLETIC (2014-2015) Kansas City Metro area	ONS	Growth 2011-15
TOTAL TECH DEGREES	835	40.8%
Computer Engineering	748	47.8%
Math/Statistics	47	11.9%
Other Tech Engineering	40	-11.1%
C TI N .: 1C . C	ET .	C

Source: The National Center for Education Statistics (Region), July 2016.

EDUCATION ATTAINMENT



Source: U.S. Census Bureau (City), 2016.

TECH DIVERSITY



Source- U.S. Census Bureau (Metro Area), 2016.

HOUSING & RELATIVE COSTS*





AVERAGE APT. RENT: \$940 PER UNIT/MO. 14% INCREASE SINCE 2011

(US = 100%)

43.50 SCORE

Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

Pittsburgh, PA

Employment

2016

42.130

12,760

21,280

2,870

5,220

147.560

11.060

106.020

21,810

8,670

Growth

2011-16

23.9%

31.1%

24.2%

40.0%

2.8%

2.6%

17.8%

-1.1%

9.0%

20.4%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

Average Growth

\$80.432

\$83,190

\$72,829

\$131,290

\$76,724

\$51,260

\$70.530

\$44,567

\$70,628

\$59,807

Wage 2011-16

11.5%

6.2%

14.3%

14.4%

7.6%

10.7%

-6.3%

10.2%

14.8%

11.3%

EMPLOYMENT BREAKDOWN

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
Confidential	3011 Smallman St	117,609
Argo Al	40 24th Street	23,350
JazzHR	1501 Reedsdale St	8,356
		Source: CBRE Research (Office Market), 2017.

ABOR POOL

(2014-2015) Pittsburgh Metro area	ONS	Growth 2011-15
TOTAL TECH DEGREES	4,081	36.8%
Computer Engineering	2,643	30.1%
Math/Statistics	472	17.4%
Other Tech Engineering	966	76.0%
6 7 1 1 1 1 6 1 6	EI.	

Source: The National Center for Education Statistics (Region), July 2016.

EDUCATION ATTAINMENT



Source: U.S. Census Bureau (City), 2016.

TECH DIVERSITY



(Metro Area), 2016...

POPULATION TRENDS

TOTAL TECH TALENT

Software Developers & Programmers

Computer & Infor. Systems Managers

Technology Engineering-Related

TOTAL NON-TECH TALENT

Administrative & Office Support

Business Operations & Finance

Marketing

Computer Support, Database & Systems

The population of millennials in their 20s grew by 11,577 (17.7%) since 2010. That's 843% of total growth in a population of 304,385. Source: U.S. Census Bureau (City of Pittsburgh), 2016.

OFFICE RENT & VACANCY TRENDS

Asking Rent: \$21.79 PSF (up 9.6%); Vacancy: 11.4% (up 100 bps) (Q1 2017 data with change since Q1 2012)

Source: CBRE Research (Office Market), Q1 2017.

HOUSING & RELATIVE COSTS* (US = 100%)





AVERAGE APT. RENT: \$1,075 PER UNIT/MO. 3% DECREASE SINCE 2011

*Pittsburgh Metro Area

Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

Houston, TX

EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH TALENT Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	97,550 27,020 50,530 5,790 14,210	31.4% 21.7% 41.8% 20.9% 22.4%	\$95,229 \$100,653 \$85,743 \$157,400 \$93,314	14.6% 11.9% 17.0% 19.0% 17.2%
TOTAL NON-TECH TALENT Sales Administrative & Office Support Business Operations & Finance Marketing	373,940 37,650 251,230 68,820 16,240	24.8% 56.9% 14.0% 56.5% 42.5%	\$58,894 \$74,312 \$49,137 \$84,742 \$64,546	14.2% 1.3% 10.1% 17.0% 9.1%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 31,200 (8.5%) since 2010. That's 16.3% of total growth in a population of 2,298,628.

Source: U.S. Census Bureau (City of Houston), 2016.

OFFICE RENT & VACANCY TRENDS

Asking Rent: \$29.58 PSF (up 27.3%); Vacancy: 16.8% (up 230 bps) (Q1 2017 data with change since Q1 2012)

Source: CBRE Research (Office Market), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
Forum Energy Technologies	920 Memorial City	23,652
Houston Technology Center	13501 Katy Freeway	20,000
Omni Al	1400 Broadfield	8,473

Source: CBRE Research (Office Market), 2017.

ABOR POOL

DEGREE COMPLETION (2014-2015) Houston Metro area	INS	Growth 2011-15
TOTAL TECH DEGREES Computer Engineering	2,217 1.437	45.2% 57.6%
Math/Statistics	369	29.5%
Other Tech Engineering	411	24.5%

Source: The National Center for Education Statistics (Region), July 2016.

EDUCATION ATTAINMENT



Source: U.S. Census Bureau (City), 2016.

TECH DIVERSITY



Source- U.S. Census Bureau (Metro Area), 2016.

HOUSING & RELATIVE COSTS*





AVERAGE APT. RENT: \$1,051 PER UNIT/MO. 14% INCREASE SINCE 2011

(US = 100%)

Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

32 Orlando, FL

EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH TALENT Software Developers & Programmers	35,320	45.0%	\$82,313	12.6%
	11,450	42.8%	\$91,159	15.3%
Computer Support, Database & Systems	,	56.8%	\$70,503	8.5%
Computer & Infor. Systems Managers		89.0%	\$141,100	10.9%
Technology Engineering-Related		-2.2%	\$80,614	15.1%
TOTAL NON-TECH TALENT Sales Administrative & Office Support Business Operations & Finance Marketing	143,170	15.7%	\$45,347	8.6%
	14,940	-12.4%	\$61,554	3.6%
	104,210	21.6%	\$38,883	13.0%
	20,090	25.1%	\$65,464	10.7%
	3,930	-21.1%	\$52,292	0.4%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 6,408 (12.3%) since 2010. That's 20.1% of total growth in a population of 270,917.

Source: U.S. Census Bureau (City of Orlando), 2016.

OFFICE RENT & VACANCY TRENDS

Asking Rent: \$20.97 PSF (up 3.7%); Vacancy: 10.4% (down -880 bps) (Q1 2017 data with change since Q1 2012) Source: CBRE Research (Office Market), Q1 2017.

103% LIVING COST

COST

(Region), July 2016.

38.99

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
IANPAGE Services, LLC	725 Primera Blvd	37,874
Kittelson & Associations Inc	225 E Robinson St	7,608
iVenture	1901 Summit Tower Blvd	5,840

Source: CBRE Research (Office Market), 2017.

LABOR POOL DECDEE COMPLETIONS

(2014-2015) Orlando Metro area	ONS	Growth 2011-15
TOTAL TECH DEGREES	2,129	43.2%
Computer Engineering	1,367	36.4%
Math/Statistics	105	78.0%
Other Tech Engineering	657	54.2%
Source: The National Center	for Educat	ion Statistics

OR HIGHER Source: U.S. Census Bureau

(City), 2016.

EDUCATION

ATTAINMENT

36% **BACHELOR'S** **TECH DIVERSITY**

EMALE

(Metro Area), 2016...

HOUSING & RELATIVE COSTS* (US = 100%)



AVERAGE APT. RENT: \$1,164 PER UNIT/MO. 28% INCREASE SINCE 2011

*Orlando Metro Area

Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

33 Indianapolis, IN

EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH TALENT Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	35,010 10,880 18,990 2,530 2,610	42.3% 52.2% 43.0% 29.7% 17.0%	\$77,672 \$77,970 \$73,289 \$114,800 \$72,331	7.7% 1.4% 14.1% 4.0% 2.2%
TOTAL NON-TECH TALENT Sales Administrative & Office Support Business Operations & Finance Marketing	117,510 12,900 78,010 19,070 7,530	19.2% 22.4% 16.6% 19.9% 43.7%	\$51,609 \$72,770 \$44,568 \$64,586 \$55,428	6.4% 10.7% 7.0% 1.2% 0.7%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 4,797 (3.6%) since 2010. That's 19.8% of total growth in a population of 848,423.

Source: U.S. Census Bureau (City of Indianapolis), 2016.

OFFICE RENT & VACANCY TRENDS

Asking Rent: \$18.76 PSF (up 8.6%); Vacancy: 16.4% (down -280 bps) (Q1 2017 data with change since Q1 2012) Source: CBRE Research (Office Market), Q1 2017. **TOP TECH OFFICE DEALS (2017)**

Tenant	Address	Sq. Ft.
RCR Technology Corp	251 Illinois St	19,139
Core BTS	10201 Illinois Sr	7,800
SMARI Research	135 Pennsylvania St	4,309

Source: CBRE Research (Office Market), 2017.

LABOR POOL

DEGREE COMPLET (2014-2015) Indianapa Metro are		Growth 2011-15
TOTAL TECH DEGREES	855	38.1% 28.3%
Computer Engineering Math/Statistics	567 100	2.0%
Other Tech Engineering	188	138.0%

Source: The National Center for Education Statistics (Region), July 2016.

EDUCATION ATTAINMENT



Source: U.S. Census Bureau (City), 2016.

TECH DIVERSITY



Source: U.S. Census Bureau (Metro Area), 2016.

HOUSING & RELATIVE COSTS*





AVERAGE APT. RENT: \$820 PER UNIT/MO. 15% INCREASE SINCE 2011

(US = 100%)

35.51

Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

Rochester, NY

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
Conduent	Medley Centre	125,000
Datto	The Metropolitan	42,000
CoreLogic Solutions	Calkins Road Business Park	41,000

Source: CBRE Research (Office Market), 2017.

EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH TALENT	21,510	17.8%	\$77,649	8.6%
Software Developers & Programmers	6,290	5.7%	\$85,737	11.8%
Computer Support, Database & Systems	10,870	48.7%	\$65,924	8.1%
Computer & Infor. Systems Managers	1,270	8.5%	\$132,250	10.8%
Technology Engineering-Related	3,080	-19.6%	\$79,996	16.2%
TOTAL NON-TECH TALENT	68,570	14.7%	\$49,166	8.8%
Sales	5,580	45.3%	\$73,383	4.1%
Administrative & Office Support	49,620	14.4%	\$41,624	12.0%
Business Operations & Finance	9,200	0.4%	\$69,087	2.6%
Marketing	4,170	22.3%	\$62,557	5.4%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 269 (0.7%) since 2010. That's 34.1% of total growth in a population of 209,808.

Source: U.S. Census Bureau (City of Rochester), 2016.

OFFICE RENT & VACANCY TRENDS

Asking Rent: \$19.50 PSF (up 1.8%); Vacancy: 14.8% (down -470 bps) (Q1 2017 data with change since Q1 2012)

Source: CBRE Research (Office Market), Q1 2017.

LABOR POOL

DEGREE COMPLET (2014-2015) Rocheste Metro are		Growth 2011-15
TOTAL TECH DEGREES Computer Engineering Math/Statistics Other Tech Engineering	1,951 1,233 326 392	20.7% 30.6% -4.1% 17.7%

Source: The National Center for Education Statistics (Region), July 2016.

EDUCATION ATTAINMENT



Source: U.S. Census Bureau (City), 2016.

TECH DIVERSITY



(Metro Area), 2016.

HOUSING & RELATIVE COSTS* (US = 100%)





AVERAGE APT. RENT: \$1,056 PER UNIT/MO. 22% INCREASE SINCE 2011

*Rochester Metro Area

Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

35 St. Louis, MO

EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH TALENT Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	52,190 14,170 30,500 3,240 4,280	7.9% -4.2% 20.7% 10.6% -20.3%	\$87,174 \$94,268 \$77,712 \$138,680 \$92,127	13.1% 10.9% 15.6% 19.9% 14.7%
TOTAL NON-TECH TALENT Sales Administrative & Office Support Business Operations & Finance Marketing	172,920 16,370 122,790 23,630 10,130	14.1% 39.6% 14.7% -7.2% 38.4%	\$48,584 \$60,583 \$41,052 \$73,096 \$63,313	1.1% -5.5% -1.4% 12.7% 9.8%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s declined by 3,178 (-5.3%) since 2010. That's 91.6% in a population of 315,685. Source: U.S. Census Bureau (City of St. Louis), 2016.

OFFICE RENT & VACANCY TRENDS

Asking Rent: \$18.66 PSF (up 1.6%); Vacancy: 14.2% (down -350 bps) (Q1 2017 data with change since Q1 2012) Source: CBRE Research (Office Market), Q1 2017.

TOP TECH OFFICE DEALS (2016/2017)

Tenant	Address	Sq. Ft.
Amdocs Inc	1390 Timberlake Manor Pkwy	70,881
Riot Games	7777 Bonhomme Ave	23,591
Teksystems	1 Cityplace Dr	15,941

Source: CBRE Research (Office Market), 2017.

LABOR POOL

1-15
7.0%
1.2%
1.6%

Source: The National Center for Education Statistics (Region), July 2016.

EDUCATION TECH DIVERSITY **ATTAINMENT**



Source: U.S. Census Bureau (City), 2016.

Source- U.S. Census Bureau (Metro Area), 2016.

HOUSING & RELATIVE COSTS*





AVERAGE APT. RENT: \$916 PER UNIT/MO. 20% INCREASE SINCE 2011

(US = 100%)

Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

36 Sacramento, CA

SCORE

EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH TALENT Software Developers & Programmers	39,430 14,680	25.3% 31.4%	\$91,892 \$95,217	7.5% 4.3%
Computer Support, Database & Systems	17,150	18.4%	\$80,353	7.9%
Computer & Infor. Systems Managers	2,290	-13.6%	\$133,720	12.5%
Technology Engineering-Related	5,310	68.0%	\$101,930	16.7%
TOTAL NON-TECH TALENT Sales Administrative & Office Support Business Operations & Finance Marketing	111,460	8.6%	\$51,740	4.0%
	7,330	17.1%	\$66,762	-8.2%
	79,300	3.0%	\$44,178	1.8%
	19,230	28.4%	\$73,078	11.0%
	5,600	26.4%	\$65,896	-10.0%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 5,816 (7.5%) since 2010. That's 25.1% of total growth in a population of 490,715.

Source: U.S. Census Bureau (City of Sacramento), 2016.

OFFICE RENT & VACANCY TRENDS

Asking Rent: \$21.48 PSF (up 4.7%); Vacancy: 14.5% (down -920 bps) (Q1 2017 data with change since Q1 2012) Source: CBRE Research (Office Market), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
VOXPRO Group	225 Parkshore Dr	54,784
JLM Energy	3735 Placer Corporate	39,869
New Star Laser	9085 Foothills Blvd	19,000

ABOR POOL DECDEE COMPLETIONS

(2014-2015) Sacramento Metro Area		Growth 2011-15
TOTAL TECH DEGREES	1,412	41.3%
Computer Engineering	634	34.6%
Math/Statistics	251	49.4%
Other Tech Engineering	527	46.4%

Source: The National Center for Education Statistics (Region), July 2016.

EDUCATION ATTAINMENT



Source: U.S. Census Bureau (City), 2016.

TECH DIVERSITY

EMALE

Source: CBRE Research (Office Market), 2017.



(Metro Area), 2016.

HOUSING & RELATIVE COSTS* (US = 100%)





AVERAGE APT. RENT: \$1,373 PER UNIT/MO. 39% INCREASE SINCE 2011

*Sacramento Metro Area

Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

37 Hartford, CT

EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH TALENT Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	24,620 8,050 11,660 2,990 1,920	17.1% 45.6% 7.7% -2.0% 18.5%	\$96,225 \$95,103 \$85,951 \$145,320 \$86,869	15.2% 12.4% 13.1% 27.3% 19.1%
TOTAL NON-TECH TALENT Sales Administrative & Office Support Business Operations & Finance Marketing	74,120 5,760 52,400 12,390 3,570	16.3% 101.4% 12.7% 10.8% 10.9%	\$56,095 \$76,360 \$47,595 \$78,693 \$69,732	8.9% -19.8% 10.5% 8.0% 14.9%

POPULATION TRENDS

The population of millennials in their 20s grew by 4,063 (17.7%) since 2010. That's 487.8% of total growth in a population of 124,014.

Source: U.S. Census Bureau (City of Hartford), 2016.

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

OFFICE RENT & VACANCY TRENDS

Asking Rent: \$19.83 PSF (up 1.0%); Vacancy: 16.0% (down -260 bps) (Q1 2017 data with change since Q1 2012) Source: CBRE Research (Office Market), Q1 2017.

TOP TECH OFFICE DEALS (2016)

Tenant	Address	Sq. Ft.
United Technologies	755 Main St	74,200
Tallan	45 Glastonbury Blvd	20,000
Vertafore	5 Waterside Crossing	15,400

Source: CBRE Research (Office Market), 2017.

LABOR POOL

DEGREE COMPLET (2014-2015) Hartford Metro are		Growth 2011-15
TOTAL TECH DEGREES	1,242	44.1%
Computer Engineering	404	46.9%
Math/Statistics	399	55.9%
Other Tech Engineering	439	32.6%

Source: The National Center for Education Statistics (Region), July 2016.

TECH DIVERSITY EDUCATION ATTAINMENT



Source: U.S. Census Bureau (City), 2016.



Source- U.S. Census Bureau (Metro Area), 2016.

HOUSING & RELATIVE COSTS*





AVERAGE APT. RENT: \$1,284 PER UNIT/MO. 11% INCREASE SINCE 2011

(US = 100%)

Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

38 Long Island, NY

EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH TALENT	29,870	24.0% 21.2%	\$92,546	9.0% 4.6%
Software Developers & Programmers Computer Support, Database & Systems	8,810 14,590	39.0%	\$95,200 \$79,608	10.7%
Computer & Infor. Systems Managers Technology Engineering-Related	2,560 3,910	14.3% -3.9%	\$161,270 \$89,851	23.4% 9.4%
TOTAL NON-TECH TALENT Sales	175,940 12,920	5.7% 44.8%	\$57,005 \$81,171	9.3% 0.7%
Administrative & Office Support	134,320	1.6%	\$49,869	9.6%
Business Operations & Finance Marketing	21,140 7,560	9.3% 26.6%	\$84,878 \$64,568	5.0% -0.2%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 28,950 (8.7%) since 2010. That's 106.2% of total growth in a population of 2,862,937.

Source: U.S. Census Bureau (Nassau and Suffolk Counties), 2016.

OFFICE RENT & VACANCY TRENDS

Asking Rent: \$26.75 PSF (up 0.6%); Vacancy: 10.4% (down -440 bps) (Q1 2017 data with change since Q1 2012)

Source: CBRE Research (Office Market), Q1 2017.

TOP TECH OFFICE DEALS (2016/2017)

Tenant	Address	Sq. Ft.
LBi Software	999 Walt Whitman Rd	16,000
Frontline Technologies	100 Merrick Rd	14,000
Driven Local	CA PIz	12,000

Source: CBRE Research (Office Market), 2017.

ABOR POOL

(2014-2015) New York Metro Area		Growth 2011-15
TOTAL TECH DEGREES	14,419	37.8%
Computer Engineering	8,490	44.4%
Math/Statistics	3,051	29.3%
Other Tech Engineering	2.878	29.2%

Source: The National Center for Education Statistics (Region), July 2016.

EDUCATION ATTAINMENT



Source: U.S. Census Bureau (City), 2016.

TECH DIVERSITY

EMALE



(Metro Area), 2016.

HOUSING & RELATIVE COSTS* (US = 100%)





AVERAGE APT. RENT: \$2,218 PER UNIT/MO. 17% INCREASE SINCE 2011

*Long Island Metro Area

Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

39 Omaha, NE

31.54

EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH TALENT Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	20,780 7,110 11,170 1,310 1,190	25.6% 10.2% 36.6% 52.3% 13.3%	\$80,155 \$85,138 \$72,195 \$122,920 \$78,035	9.6% 14.3% 7.1% 0.3% 13.1%
TOTAL NON-TECH TALENT Sales Administrative & Office Support Business Operations & Finance Marketing	58,920 5,490 38,440 11,310 3,680	10.9% 15.6% 8.0% 25.9% -3.2%	\$48,032 \$61,180 \$39,871 \$66,422 \$57,150	7.1% -1.5% 8.6% 4.0% 5.0%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s declined by 156 (-0.2%) since 2010. That's -0.5% in a population of 443,887.

Source: U.S. Census Bureau (City of Omaha), 2016.

OFFICE RENT & VACANCY TRENDS

Asking Rent: \$19.52 PSF (up 11.0%); Vacancy: 11.2% (down -400 bps) (Q1 2017 data with change since Q1 2012)

Source: CBRE Research (Office Market), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
N/A		

Source: CBRE Research (Office Market), 2017.

LABOR POOL

DEGREE COMPLET (2014-2015) Omaha Metro Are		Growth 2011-15
TOTAL TECH DEGREES Computer Engineering	665 611	33.8% 38.9%
Math/Statistics Other Tech Engineering	54	-5.3% 0.0%

Source: The National Center for Education Statistics (Region), July 2016.

EDUCATION TECH DIVERSITY ATTAINMENT



Source: U.S. Census Bureau (City), 2016.



Source: U.S. Census Bureau (Metro Area), 2016.

(US = 100%)

HOUSING & RELATIVE COSTS*





AVERAGE APT. RENT: \$883 PER UNIT/MO. 26% INCREASE SINCE 2011

*Omaha Metro Area

Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

40 Milwaukee, WI

31.14

EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH TALENT Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	30,810 8,660 16,450 2,590 3,110	21.1% 13.2% 38.0% 21.6% -16.8%	\$79,368 \$82,179 \$71,198 \$124,270 \$77,362	7.8% 8.7% 7.0% 11.6% 9.5%
TOTAL NON-TECH TALENT Sales Administrative & Office Support Business Operations & Finance Marketing	103,360 8,860 71,500 16,160 6,840	11.9% 9.9% 11.4% 7.9% 32.6%	\$54,436 \$68,729 \$49,053 \$68,286 \$59,465	11.9% -6.3% 16.9% 10.3% 8.6%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s declined by -2,151 (-1.9%) since 2010. That's -47.1% in a population of 600,154.

Source: U.S. Census Bureau (City of Milwaukee), 2016.

OFFICE RENT & VACANCY TRENDS

Asking Rent: \$18.28 PSF (up 5.8%); Vacancy: 13.4% (down -330 bps) (Q1 2017 data with change since Q1 2012)

Source: CBRE Research (Office Market), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
Montage Talent	514 Wells St	10,615
Capital Data	1360 S Moorland Rd	5,106
Telkonet	20800 Swenson Dr	3,982

LABOR POOL

(2014-2015) Milwaukee		Growth 2011-15
TOTAL TECH DEGREES Computer Engineering Math/Statistics Other Tech Engineering	1,138 576 113 449	28.7% 22.0% 46.8% 34.0%

Source: The National Center for Education Statistics (Region), July 2016.

EDUCATION ATTAINMENT



Source: U.S. Census Bureau (City), 2016.

TECH DIVERSITY

Source: CBRE Research (Office Market), 2017.



Source: U.S. Census Bureau (Metro Area), 2016.

HOUSING & RELATIVE COSTS* (US=100%)





AVERAGE APT. RENT: \$1,145 PER UNIT/MO. 15% INCREASE SINCE 2011

*Milwaukee Metro Area

Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

Cincinnati, OH

EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH TALENT Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	36,450	21.0%	\$83,390	11.9%
	10,170	15.7%	\$85,158	12.3%
	20,650	29.1%	\$76,321	13.5%
	3,190	22.2%	\$128,020	15.3%
	2,440	-10.6%	\$77,504	-0.4%
TOTAL NON-TECH TALENT Sales Administrative & Office Support Business Operations & Finance Marketing	119,340	5.4%	\$51,594	7.1%
	13,690	10.0%	\$73,914	3.8%
	77,790	-0.9%	\$42,433	4.3%
	19,580	24.4%	\$68,521	6.0%
	8,280	27.6%	\$60,727	11.7%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s declined by -8,012 (-12.7%) since 2010. That's -491.5% in a population of 298,537.

Source: U.S. Census Bureau (City of Cincinnati), 2016.

OFFICE RENT & VACANCY TRENDS

Asking Rent: \$19.09 PSF (down -0.9%); Vacancy: 18.8% (down -430 bps) (Q1 2017 data with change since Q1 2012) Source: CBRE Research (Office Market), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
COMDOC	9999 Carver Rd	7,168
EMI Research Solutions	8280 Montgomery Rd	4,995
Forcam	4030 Smith Rd	3,706

Source: CBRE Research (Office Market), 2017.

LABOR POOL

DEGREE COMPLETIO (2014-2015) Cincinnati Metro Area	NS	Growth 2011-15
TOTAL TECH DEGREES Computer Engineering	1, 372 713	42.6% 77.8%
Math/Statistics	201	28.0%
Other Tech Engineering	458	13.4%
C T N .: 1C . (F 1	C

Source: The National Center for Education Statistics (Region), July 2016.

EDUCATION ATTAINMENT



Source: U.S. Census Bureau (City), 2016.

TECH DIVERSITY



Source- U.S. Census Bureau (Metro Area), 2016.

HOUSING & RELATIVE COSTS*





AVERAGE APT. RENT: \$902 PER UNIT/MO. 16% INCREASE SINCE 2011

(US = 100%)

Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

42 Ft. Lauderdale, FL

EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH TALENT Software Developers & Programmers	22,370 7,770	37.2% 73.4%	\$79,484 \$82,695	15.3% 12.0%
Computer Support, Database & Systems	,	29.2%	\$71,008	16.6%
Computer & Infor. Systems Managers		51.1%	\$140,270	10.5%
Technology Engineering-Related		-23.1%	\$72,955	6.8%
TOTAL NON-TECH TALENT Sales Administrative & Office Support Business Operations & Finance Marketing	122,550	22.4%	\$47,800	6.0%
	14,040	1.7%	\$68,343	1.9%
	87,900	26.6%	\$40,291	9.9%
	14,700	9.3%	\$68,355	8.1%
	5,910	71.8%	\$59,558	6.6%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s declined by -104 (-0.5%) since 2010. That's -0.8% in a population of 178,587. Source: U.S. Census Bureau (City of Ft. Lauderdale), 2016.

OFFICE RENT & VACANCY TRENDS

Asking Rent: \$31.72 PSF (up 20.5%); Vacancy: 12.9% (down -620 bps) (Q1 2017 data with change since Q1 2012) Source: CBRE Research (Office Market), Q1 2017. **TOP TECH OFFICE DEALS (2017)**

Tenant	Address	Sq. Ft.
Ford Motor Co	1200 Sawgrass Corporate Pkwy	60,648
Housing & Development Software	3034 Universal Blvd	7,948

Source: CBRE Research (Office Market), 2017.

LABOR POOL DECDEE COMPLETIONS

(2014-2015) Ft. Lauderdale Metro Area		Growth 2011-15
TOTAL TECH DEGREES Computer Engineering Math/Statistics Other Tech Engineering	2,275 1,656 156 463	41.7% 42.3% 28.9% 44.2%

Source: The National Center for Education Statistics (Region), July 2016.

EDUCATION ATTAINMENT



Source: U.S. Census Bureau (City), 2016.

TECH DIVERSITY

EMALE



(Metro Area), 2016.

HOUSING & RELATIVE COSTS* (US = 100%)





AVERAGE APT. RENT: \$1,548 PER UNIT/MO. 26% INCREASE SINCE 2011

*Ft. Lauderdale Metro Area

Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

43 Nashville, TN

EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH TALENT Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	27,270	43.5%	\$79,421	12.7%
	7,400	42.9%	\$83,458	11.8%
	14,570	44.5%	\$71,721	14.8%
	3,040	68.0%	\$107,870	7.1%
	2,260	17.1%	\$77,580	6.8%
TOTAL NON-TECH TALENT Sales Administrative & Office Support Business Operations & Finance Marketing	114,830	20.6%	\$48,568	7.0%
	11,810	20.0%	\$64,872	4.0%
	81,660	18.7%	\$42,146	6.8%
	15,890	21.3%	\$65,958	6.0%
	5,470	58.6%	\$58,723	13.7%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 7,444 (6.8%) since 2010. That's 14.3% of total growth in a population of 654,596.

Source: U.S. Census Bureau (City of Nashville), 2016.

OFFICE RENT & VACANCY TRENDS

Asking Rent: \$24.93 PSF (up 38.3%); Vacancy: 8.1% (down -450 bps) (Q1 2017 data with change since Q1 2012) Source: CBRE Research (Office Market), Q1 2017.

TOP TECH OFFICE DEALS (2016/2017)

Tenant	Address	Sq. Ft.
Digital Reasoning	701 Cool Springs Blvd	50,000
Houzz	315 Deadrick St	37,421
SouthComm	427 Chestnut St	14,160

Source: CBRE Research (Office Market), 2017.

LABOR POOL

DEGREE COMPLET (2014-2015) Nashville Metro Are		Growth 2011-15
TOTAL TECH DEGREES Computer Engineering	720 405	27.7% 55.2%
Math/Statistics Other Tech Engineering	165 150	12.2% -3.8%
.9		

Source: The National Center for Education Statistics (Region), July 2016.

EDUCATION ATTAINMENT



Source: U.S. Census Bureau (City), 2016.

TECH DIVERSITY



Source- U.S. Census Bureau (Metro Area), 2016.

HOUSING & RELATIVE COSTS*





AVERAGE APT. RENT: \$1,123 PER UNIT/MO. 33% INCREASE SINCE 2011

(US = 100%)

Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

Virginia Beach, VA

27.68

EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH TALENT Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	27,660 6,750 14,260 1,280 5,370	16.9% 23.9% 18.6% -5.2% 10.7%	\$84,514 \$96,754 \$75,614 \$140,570 \$79,398	10.8% 18.1% 7.3% 20.9% 8.6%
TOTAL NON-TECH TALENT Sales Administrative & Office Support Business Operations & Finance Marketing	79,460 5,680 57,950 12,460 3,370	-0.2% 19.1% -4.2% 10.1% 12.7%	\$49,997 \$62,325 \$43,670 \$71,631 \$58,029	11.2% 13.9% 7.1% 18.6% 4.4%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 4,118 (5.5%) since 2010. That's 30.3% of total growth in a population of 452,745.

Source: U.S. Census Bureau (City of Norfolk), 2016.

OFFICE RENT & VACANCY TRENDS

Asking Rent: \$18.77 PSF (down -11.5%); Vacancy: 15.6% (down -200 bps) (Q1 2017 data with change since Q1 2012)

Source: CBRE Research (Office Market), Q1 2017.

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
Mythics	4525 Main Street Tower	38,951
Harris Corporation	7007 Harbour View Blvd	15,131
Decisions LLC	238 S Battlefield Blvd	10,450

Source: CBRE Research (Office Market), 2017.

ABOR POOL

(2014-2015) Virginia Beach		Growth 2011-15
TOTAL TECH DEGREES	1,495	39.7%
Computer Engineering	910	40.6%
Math/Statistics	171	71.0%
Other Tech Engineering	414	28.2%

Source: The National Center for Education Statistics (Region), July 2016.

EDUCATION ATTAINMENT



Source: U.S. Census Bureau (City), 2016.

TECH DIVERSITY



(Metro Area), 2016.

HOUSING & RELATIVE COSTS* (US = 100%)





AVERAGE APT. RENT: \$1,027 PER UNIT/MO. 5% INCREASE SINCE 2011

*Virginia Beach Metro Area

Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

45 Cleveland, OH

26.93

EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH TALENT Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	32,120	18.3%	\$78,378	11.6%
	10,330	50.6%	\$81,313	9.7%
	16,480	10.6%	\$68,809	10.4%
	2,640	31.3%	\$129,590	12.5%
	2,670	-20.8%	\$75,444	7.0%
TOTAL NON-TECH TALENT Sales Administrative & Office Support Business Operations & Finance Marketing	116,820	2.3%	\$52,856	12.1%
	12,970	5.3%	\$74,633	10.4%
	77,680	-1.4%	\$44,126	11.0%
	18,210	9.2%	\$69,617	9.4%
	7,960	25.6%	\$64,226	14.0%

POPULATION TRENDS

The population of millennials in their 20s grew by 8,094 (13.7%) since 2010. That's 98.9% of total growth in a population of 388,059.

Source: U.S. Census Bureau (City of Cleveland), 2016.

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

OFFICE RENT & VACANCY TRENDS

Asking Rent: \$18.05 PSF (up 7.0%); Vacancy: 18.4% (down -280 bps) (Q1 2017 data with change since Q1 2012)

Source: CBRE Research (Office Market). 01 2017.

TOP TECH OFFICE DEALS (2016/2017)

Tenant	Address	Sq. Ft.
MIM Software	25800 Science Park Dr	28,160
EMC Corporation	6480 Rockside Woods Blvd	13,030
BrightEdge Technologies	50 Public Sq	8,691

Source: CBRE Research (Office Market), 2017.

LABOR POOL

DEGREE COMPLETION (2014-2015) Cleveland Metro Area	SNC	Growth 2011-15
TOTAL TECH DEGREES	844	20.2%
Computer Engineering	452	43.0%
Math/Statistics	123	-7.5%
Other Tech Engineering	269	6.3%

Source: The National Center for Education Statistics (Region), July 2016.

EDUCATION ATTAINMENT



Source: U.S. Census Bureau (City), 2016.

TECH DIVERSITY



Source: U.S. Census Bureau (Metro Area), 2016.

HOUSING & RELATIVE COSTS*





AVERAGE APT. RENT: \$894 PER UNIT/MO. 11% INCREASE SINCE 2011

(US = 100%)

*Cleveland Metro Area

Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

46 Richmond, VA

26.86

EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH TALENT Software Developers & Programmers Computer Support Detabase & Systems	24,940 8,290 13,200	28.8% 37.5% 35.1%	\$90,470 \$95,630 \$80,425	13.2% 7.7% 16.6%
Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	1,720 1,730	10.3%	\$145,250 \$87,920	20.3% 17.4%
TOTAL NON-TECH TALENT Sales Administrative & Office Support Business Operations & Finance Marketing	82,990 5,840 56,740 15,360 5,050	5.2% -6.0% 2.4% 14.5% 30.5%	\$52,562 \$70,066 \$44,143 \$72,658 \$65,781	6.0% 0.8% 3.4% 9.6% 12.9%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 605 (1.3%) since 2010. That's 38% of total growth in a population of 220,289.

Source: U.S. Census Bureau (City of Richmond), 2016.

OFFICE RENT & VACANCY TRENDS

Asking Rent: \$19.55 PSF (up 8.2%); Vacancy: 11.8% (down -470 bps) (Q1 2017 data with change since Q1 2012)

Source: CBRE Research (Office Market), Q1 2017.

TOP TECH OFFICE DEALS (2016/2017)

Tenant	Address	Sq. Ft.
CoStar Global Research	501 S 5th St	135,000
Retail Data	11013 W Broad St	42,539
Tridium	3957 Westerre Pky	35,731

LABOR POOL

(2014-2015) Richmond Metro Area	INS	Growth 2011-15
TOTAL TECH DEGREES	711	55.9%
Computer Engineering	459	69.4%
Math/Statistics	121	51.3%
Other Tech Engineering	131	24.8%

Source: The National Center for Education Statistics (Region), July 2016.

EDUCATION ATTAINMENT



Source: U.S. Census Bureau (City), 2016.

TECH DIVERSITY

Source: CBRE Research (Office Market), 2017.



Source: U.S. Census Bureau (Metro Area), 2016.

HOUSING & RELATIVE COSTS* (US=100%)





AVERAGE APT. RENT: \$1,007 PER UNIT/MO. 11% INCREASE SINCE 2011

*Richmond Metro Area

Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

47 San Antonio, TX

26.56

EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH TALENT Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	30,510 8,680 18,190 1,150 2,490	32.5% 39.8% 35.6% 5.5% 7.3%	\$88,109 \$103,529 \$76,814 \$156,120 \$85,458	16.3% 21.8% 11.9% 42.3% 12.2%
TOTAL NON-TECH TALENT Sales Administrative & Office Support Business Operations & Finance Marketing	131,220 10,160 96,690 18,990 5,380	25.3% 47.0% 22.1% 29.4% 36.2%	\$52,023 \$61,544 \$46,581 \$70,714 \$65,869	17.2% 5.2% 19.9% 10.6% 13.7%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s grew by 33,568 (15.6%) since 2010. That's 24.8% of total growth in a population of 1,469,824.

Source: U.S. Census Bureau (City of San Antonio), 2016.

OFFICE RENT & VACANCY TRENDS

Asking Rent: \$21.76 PSF (up 4.4%); Vacancy 14.6% (down -290 bps) (Q1 2017 data with change since Q1 2012) Source: CBRE Research (Office Market), Q1 2017.

Employment

2016

24.180

7,540

13,490

1,370

1,780

154,680

15,930

111.000

19,500

8,250

Growth

2011-16

46.8%

64.6%

46.9%

42.7%

1.7%

16.1%

-3.7%

17.4%

16.7%

54.2%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

Average Growth

\$75,700

\$78,606

\$68,534

\$134,450

\$72,473

\$48,199

\$64,532

\$41,584

\$67,617

\$59,763

Wage 2011-16

2.5%

1.7%

2.8%

1.1%

3.1%

6.0%

-1.6%

12.4%

-1.4%

-1.3%

TOP TECH OFFICE DEALS (2016/2017)

Tenant	Address	Sq. Ft.
Hulu	4511 Horizon Hill Blvd	60,000
Oracle	613 NW Loop 410	27,500
Parlevel Systems	112 E Pecan	16,700

Source: CBRE Research (Office Market), 2017.

LABOR POOL

DEGREE COMPLETIC (2014-2015) San Antonio Metro Area	Growth 2011-15	
TOTAL TECH DEGREES	935	44.7%
Computer Engineering	570	52.4%
Math/Statistics	143	26.5%
Other Tech Engineering	222	39.6%
C TINE ICE	EL e	C

Source: The National Center for Education Statistics (Region), July 2016.

EDUCATION ATTAINMENT



Source: U.S. Census Bureau (City), 2016.

TECH DIVERSITY



Source- U.S. Census Bureau (Metro Area), 2016.

HOUSING & RELATIVE COSTS*





AVERAGE APT. RENT: \$927 PER UNIT/MO. 11% INCREASE SINCE 2011

(US = 100%)

24 61

Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

48 Miami, FL

EMPLOYMENT BREAKDOWN

TOP TECH OFFICE DEALS (2017)

Tenant	Address	Sq. Ft.
WIX	1691 Michigan Ave	28,300
PCM	9250 W Flagler St	16,000
Amadeus North America	3470 NW 82nd Ave	9,800
		Source: CBRE Research (Office Market), 2017.

ABOR POOL

(2014-2015) Miami Metro Area	Growth 2011-15	
TOTAL TECH DEGREES	2,275	41.7%
Computer Engineering	1,656	42.3%
Math/Statistics	156	28.9%
Other Tech Engineering	463	44.2%
6 7 1 1 1 6 6	F 1	

Source: The National Center for Education Statistics (Region), July 2016.

EDUCATION ATTAINMENT



Source: U.S. Census Bureau (City), 2016.

TECH DIVERSITY



(US = 100%)

Source: ILS Census Bureau (Metro Area), 2016.

POPULATION TRENDS

TOTAL TECH TALENT

Software Developers & Programmers

Computer & Infor. Systems Managers

Technology Engineering-Related

TOTAL NON-TECH TALENT

Administrative & Office Support

Business Operations & Finance

Sales

Marketing

Computer Support, Database & Systems

The population of millennials in their 20's grew by 4,210 (7.0%) since 2010. That's 10.5% of growth in a population 440,989. Source: U.S. Census Bureau (City of Miami), 2016.

OFFICE RENT & VACANCY TRENDS

Asking Rent: \$36.44 PSF (up 20.7%); Vacancy: 10.9% (down -830 bps) (Q1 2017 data with change since Q1 2012) Source: CBRE Research (Office Market), Q1 2017.

113% LIVING

COST



HOUSING & RELATIVE COSTS*

BUSINESS COST

AVERAGE APT. RENT: \$1,664 PER UNIT/MO. 22% INCREASE SINCE 2011

*Miami Metro Area

Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

49 Jacksonville, FL

EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH TALENT Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	19,020	41.0%	\$80,585	19.5%
	6,170	82.0%	\$90,128	21.2%
	10,450	37.3%	\$71,215	19.5%
	1,030	45.1%	\$123,690	5.5%
	1,370	-23.0%	\$76,672	12.6%
TOTAL NON-TECH TALENT Sales Administrative & Office Support Business Operations & Finance Marketing	87,970	9.1%	\$44,685	6.1%
	7,630	11.4%	\$60,302	-2.0%
	64,890	5.7%	\$38,447	6.2%
	11,960	24.3%	\$64,726	2.8%
	3,490	26.9%	\$57,846	9.6%

POPULATION TRENDS

The population of millennials in their 20s grew by 5,508 (4.1%) since 2010. That's 12.3% of total growth in a population of 868,031.

Source: U.S. Census Bureau (City of Jacksonville), 2016.

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

OFFICE RENT & VACANCY TRENDS

Asking Rent: \$19.07 PSF (up 10.7%); Vacancy: 15.9% (down -730 bps) (Q1 2017 data with change since Q1 2012) Source: CBRE Research (Office Market), Q1 2017.

TOP TECH OFFICE DEALS (2016/2017)

Tenant	Address	Sq. Ft.
Puma Aero Marine	1005 Bunker Ave	60,000
Wyle Laboratories	320 & 340 Corporate Way	19,970
GRACE Aerospace	13541 Lake Newman St	13,000

Source: CBRE Research (Office Market), 2017.

LABOR POOL

DEGREE COMPLETIC (2014-2015) Jacksonville Metro Area	ONS	Growth 2011-15
TOTAL TECH DEGREES	360	54.5%
Computer Engineering	257	52.1%
Math/Statistics	46	31.4%
Other Tech Engineering	57	96.6%
Course The Newton of Course for	. F.J	Ct

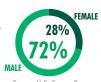
Source: The National Center for Education Statistics (Region), July 2016.

EDUCATION ATTAINMENT



Source: U.S. Census Bureau (City), 2016.

TECH DIVERSITY



Source- U.S. Census Bureau (Metro Area), 2016.

HOUSING & RELATIVE COSTS*





AVERAGE APT. RENT: \$965 PER UNIT/MO. 16% INCREASE SINCE 2011

(US = 100%)

Source: Relative Costs from Moody's Analytics (metro grea), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

Oklahoma City, OK

EMPLOYMENT BREAKDOWN

	Employment 2016	Growth 2011-16	Average Wage	Growth 2011-16
TOTAL TECH TALENT Software Developers & Programmers Computer Support, Database & Systems Computer & Infor. Systems Managers Technology Engineering-Related	18,970 5,330 9,180 1,680 2,780	46.6% 71.9% 52.0% 44.8% 5.3%	\$74,424 \$80,015 \$62,763 \$103,220 \$84,814	12.6% 18.3% 10.0% 15.1% 13.8%
TOTAL NON-TECH TALENT Sales Administrative & Office Support Business Operations & Finance Marketing	74,990 7,680 52,940 11,070 3,300	5.9% 51.5% -3.2% 24.1% 56.4%	\$46,782 \$58,338 \$41,319 \$63,534 \$51,335	13.4% 6.2% 11.4% 8.9% 16.8%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

POPULATION TRENDS

The population of millennials in their 20s declined by 1,288 (-1.3%) since 2010. Thats -2.6% in a population of 631,263 Source: U.S. Census Bureau (City of Oklahoma City), 2016.

OFFICE RENT & VACANCY TRENDS

Asking Rent: \$17.28 PSF (up 14.0%); Vacancy: 15.1% (up 230 bps) (Q1 2017 data with change since Q1 2012) Source: CBRE Research (Office Market), Q1 2017. **TOP TECH OFFICE DEALS (2017)**

Tenant	Address	Sq. Ft.
Stim-Lab, Inc	7406 N Highway 81	17,000
Spiers New Technologies	3815 N Sante Fe Ave	11,214
TEKsystems	29 E Reno Ave	9,728

LABOR POOL

(2014-2015) Oklahoma Ci Metro Area	Growth 2011-15	
TOTAL TECH DEGREES	679	15.9%
Computer Engineering	331	20.4%
Math/Statistics	78	-8.2%
Other Tech Engineering	270	19.5%

Source: The National Center for Education Statistics (Region), July 2016.

EDUCATION ATTAINMENT



Source: U.S. Census Bureau (City), 2016.

TECH DIVERSITY

EMALE

Source: CBRE Research (Office Market), 2017.



(Metro Area), 2016.

HOUSING & RELATIVE COSTS* (US = 100%)





AVERAGE APT. RENT: \$704 PER UNIT/MO. 5% INCREASE SINCE 2011

*Oklahoma City Metro Area

Source: Relative Costs from Moody's Analytics (metro area), Q1 2017; Apt, rent data from CBRE EA (City), Q1 2017.

FULL REPORT DATA SUMMARY

WHAT IS TECH TALENT AND WHY IS IT IMPORTANT?

TABLE 1
TECH TALENT LABOR BY INDUSTRY (2016)

Tech Talent Occupations in Each Industry as a % of U.S. Tech Talent

Industry	% of Total Tech Talent Labor
Core High-Tech*	37.1%
Management of Companies and Enterprises	6.0%
Professional, Scientific, and Technical Services (Excluding High-Tech)	10.6%
Information (Excluding High-Tech)	6.1%
FIRE	7.9%
Government	6.1%
Transportation, Warehousing, and Wholesale	5.1%
Manufacturing (Excluding High-Tech)	4.7%
Education	4.8%
Other	8.9%
Healthcare	2.7%

*Includes computer software and services and computer product manufacturing.

Source: U.S. Bureau of Labor Statistics (National), April 2016.

WHICH ARE THE TOP-RANKED TECH-TALENT MARKETS?

TABLE 2
TECH TALENT SCORECARD RANKING

Rank	Market	Score	Rank	Market	Score
1	SF Bay Area, CA	81.28	26	Charlotte, NC	46.29
2	Seattle, WA	67.83	27	Tampa, FL	45.48
3	New York, NY	64.21	28	Columbus, OH	45.17
4	Washington, D.C.	64.13	29	Kansas City, MO	44.93
5	Atlanta, GA	59.55	30	Pittsburgh, PA	43.50
6	Toronto, ON	59.30	31	Houston, TX	42.57
7	Raleigh-Durham, NC	59.03	32	Orlando, FL	38.99
8	Austin, TX	58.73	33	Indianapolis, IN	36.39
9	Boston, MA	57.57	34	Rochester, NY	35.51
10	Dallas/Ft. Worth, TX	55.40	35	St. Louis, MO	35.44
11	Baltimore, MD	55.28	36	Sacramento, CA	35.11
12	Denver, CO	53.37	37	Hartford, CT	34.71
13	Newark, NJ	52.55	38	Long Island, NY	34.62
14	Orange County, CA	51.87	39	Omaha, NE	31.54
15	Chicago, IL	51.78	40	Milwaukee, WI	31.14
16	Vancouver, BC	51.40	41	Cincinnati, OH	30.11
17	Phoenix, AZ	51.24	42	Ft. Lauderdale, FL	29.98
18	Minneapolis, MN	51.06	43	Nashville, TN	28.87
19	San Diego, CA	50.83	44	Virginia Beach, VA	27.68
20	Portland, OR	49.88	45	Cleveland, OH	26.93
21	Detroit, MI	49.34	46	Richmond, VA	26.86
22	Philadelphia, PA	49.17	47	San Antonio, TX	26.56
23	Salt Lake City, UT	49.12	48	Miami, FL	24.64
24	Los Angeles, CA	47.08	49	Jacksonville, FL	23.70
25	Madison, WI	46.91	50	Oklahoma City, OK	15.86

Source: CBRE Research; CBRE Econometric Advisors; U.S. Bureau of Labor Statistics; Statistics Canada; CMHC; Moody's Analytics; The National Center of Education Statistics; National Science Foundation; Axiometrics.

WHAT ARE TECH-TALENT MOMENTUM MARKETS?

TABLE 3
TECH TALENT LABOR CONCENTRATION

Market	Tech Talent Jobs as % of Total Jobs	Market	Tech Talent Jobs as % of Total Jobs
SF Bay Area, CA	10.3%	Hartford, CT	4.2%
Seattle, WA	8.6%	Rochester, NY	4.2%
Toronto, ON	8.0%	Detroit, MI	4.1%
Washington, D.C.	7.9%	Philadelphia, PA	4.1%
Austin, TX	7.1%	Chicago, IL	3.9%
Raleigh-Durham, NC	6.9%	Richmond, VA	3.9%
Boston, MA	6.4%	St. Louis, MO	3.9%
Madison, WI	6.1%	Virginia Beach, VA	3.7%
Vancouver, BC	5.7%	Pittsburgh, PA	3.7%
Denver, CO	5.5%	New York, NY	3.7%
Baltimore, MD	5.4%	Milwaukee, WI	3.7%
Atlanta, GA	5.2%	Tampa, FL	3.6%
Minneapolis, MN	5.0%	Cincinnati, OH	3.5%
Kansas City, MO	5.0%	Indianapolis, IN	3.5%
San Diego, CA	4.8%	Houston, TX	3.3%
Dallas/Ft. Worth, TX	4.7%	Cleveland, OH	3.1%
Columbus, OH	4.7%	Oklahoma City, OK	3.1%
Salt Lake City, UT	4.7%	San Antonio, TX	3.1%
Newark, NJ	4.5%	Orlando, FL	3.0%
Portland, OR	4.5%	Los Angeles, CA	3.0%
Orange County, CA	4.4%	Nashville, TN	3.0%
Sacramento, CA	4.3%	Jacksonville, FL	2.9%
Omaha, NE	4.3%	Ft. Lauderdale, FL	2.8%
Phoenix, AZ	4.3%	Long Island, NY	2.3%
Charlotte, NC	4.3%	Miami, FL	2.1%

Source: U.S. Bureau of Labor Statistics (Metro Area), April 2016.

TABLE 4
TECH TALENT LABOR POOLS
BY MARKET (2016)

TABLE 5
TECH LABOR POOL
GROWTH RATES (2011-2016)

Labor Pool Size	Market	Tech Talent Total	Labor Pool Size	Market	% Change	by Volume
Large Tech Talent Markets (>50,000 Labor Pool)	SF Bay Area, CA New York, NY Washington, D.C. Toronto, ON Dallas/Ft. Worth, TX Chicago, IL Seattle, WA Atlanta, GA Los Angeles, CA Boston, MA Houston, TX Minneapolis, MN Phoenix, AZ Detroit, MI Philadelphia, PA Denver, CO Baltimore, MD Austin, TX Orange County, CA San Diego, CA Vancouver, BC Raleigh-Durham, NC Newark, NJ St. Louis, MO Kansas City, MO Portland, OR	328,070 246,180 243,360 212,500 161,150 143,190 136,910 136,910 126,730 115,560 97,550 95,220 83,140 78,510 77,700 77,310 72,710 68,810 68,220 66,340 65,100 60,900 52,600 52,190 51,770 50,880	Large Tech Talent Markets (>50,000 Labor Pool)	Raleigh-Durham, NC SF Bay Area, CA Atlanta, GA Detroit, MI Portland, OR Kansas City, MO Vancouver, BC Baltimore, MD Phoenix, AZ Seattle, WA Dallas/Ft. Worth, TX New York, NY Chicago, IL Toronto, ON Houston, TX Denver, CO Austin, TX San Diego, CA Philadelphia, PA Minneapolis, MN Orange County, CA Los Angeles, CA Newark, NJ Boston, MA Washington, D.C. St. Louis, MO	51.3% 49.9% 47.6% 40.7% 40.4% 39.1% 36.8% 33.5% 33.4% 32.9% 32.9% 31.8% 31.4% 29.0% 28.3% 27.7% 27.1% 25.5% 23.2% 19.0% 16.5% 11.4% 9.6% 7.9%	20,660 109,280 43,180 22,710 14,650 14,540 17,500 18,940 20,870 34,260 40,310 60,962 35,370 51,300 23,320 17,370 15,170 14,380 16,550 19,340 12,850 20,230 7,457 11,790 21,330 3,830
Small Tech Talent Markets (<50,000 Labor Pool)	Charlotte, NC Columbus, OH Tampa, FL Pittsburgh, PA Sacramento, CA Cincinnati, OH Orlando, FL Indianapolis, IN Cleveland, OH Salt Lake City, UT Milwaukee, WI San Antonio, TX Long Island, NY Virginia Beach, VA Nashville, TN Richmond, VA Hartford, CT Miami, FL Madison, WI Ft. Lauderdale, FL Rochester, NY Omaha, NE Jacksonville, FL Oklahoma City, OK	49,830 48,230 45,340 42,130 39,430 36,450 35,320 35,310 32,120 31,750 30,810 30,510 29,870 27,660 27,270 24,940 24,620 24,180 23,350 22,370 21,510 20,780 19,020 18,970	Small Tech Talent Markets (<50,000 Labor Pool)	Charlotte, NC Tampa, FL Madison, WI Miami, FL Oklahoma City, OK Salt Lake City, UT Orlando, FL Nashville, TN Indianapolis, IN Jacksonville, FL Ft. Lauderdale, FL San Antonio, TX Richmond, VA Omaha, NE Sacramento, CA Long Island, NY Pittsburgh, PA Milwaukee, WI Cincinnati, OH Cleveland, OH Rochester, NY Hartford, CT Virginia Beach, VA Columbus, OH	77.1% 55.3% 51.2% 46.8% 46.6% 45.3% 45.0% 43.5% 42.3% 41.0% 37.2% 32.5% 28.8% 25.6% 25.3% 24.0% 23.9% 21.1% 21.0% 18.3% 17.1% 16.9% 12.9%	21,690 16,140 7,910 7,710 6,030 9,900 10,960 8,270 10,400 5,530 6,060 7,480 5,570 4,240 7,970 5,790 8,140 5,370 6,330 4,980 3,250 3,590 3,990 5,510

Source: U.S. Bureau of Labor Statistics (Metro Area) April 2017, Statistics Canada (Metro Area), 2017. Source: U.S. Bureau of Labor Statistics (Metro Area) April 2017, Statistics Canada (Metro Area), 2017.

WHAT DEFINES A TECH TALENT MARKET?

TABLE 6 TOP 10 MARKETS FOR EDUCATIONAL ATTAINMENT

25+ Years Old, Bachelors Degree or Higher

Market	Educational Attainment Rate
Seattle, WA	62.1%
Washington, D.C.	56.7%
Madison, WI	55.0%
Portland, OR	48.6%
Raleigh-Durham, NC	48.4%
Atlanta, GA	48.3%
Austin, TX	48.3%
Minneapolis, MN	48.3%
Denver, CO	47.1%
SF Bay Area, CA	46.7%

Source: U.S. Census Bureau (City/County), 2016.

TABLE 7 TOP 10 REGIONS FOR TECH DEGREE COMPLETIONS (2014-2015)

Market	Tech Degree Completions (2014-2015)	Growth (2011-2015)
New York Metro Area Long Island, NY New York, NY Newark, NJ	14,419	37.8%
Washington, D.C. Metro Area Washington, D.C. Baltimore, MD	13,058	40.9%
Los Angeles Metro Area Los Angeles, CA Orange County, CA	10,632	26.7%
Chicago Metro Area Chicago, IL Milwaukee, WI	7,866	15.6%
Boston Metro Area	7,507	40.5%
SF Bay Area Metro Area Silicon Valley, CA San Francisco, CA San Francisco Peninsula, CA Oakland, CA	6,503	27.0%
Atlanta Metro Area	5,120	30.2%
Phoenix Metro Area	4,744	18.9%
Columbus Metro Area	4,655	33.8%
Detroit Metro Area	4,614	60.7%

Source: The National Center for Education Statistics (Region), July 2016.

TABLE 8 WHERE ARE TECH TALENT WORKERS COMING FROM AND WHERE ARE THEY HEADED?

Market	Tech Degrees	Tech Jobs Added	Brain
	(2011-2015)*	(2012-2016)*	Gain/Drain
SF Bay Area, CA	28,804	109,280	80,476
Dallas/Ft. Worth, TX	17,750	40,310	22,560
Seattle, WA	12,043	34,260	22,217
Atlanta, GA	22,634	43,180	20,546
Charlotte, NC	4,639	21,690	17,051
Houston, TX	8,578	23,320	14,742
New York, NY	60,678	74,209	13,531
Kansas City, MO	3,192	14,540	11,348
Tampa, FL	5,808	16,140	10,332
Portland, OR	7,563	14,650	7,087
Raleigh-Durham, NC	13,738	20,660	6,922
Indianapolis, IN	3,514	10,400	6,886
Austin, TX	9,660	15,170	5,510
Minneapolis, MN	14,138	19,340	5,202
Nashville, TN	3,337	8,270	4,933
Chicago, IL	36,459	40,740	4,281
Miami, FL	9,817	13,770	3,953
Jacksonville, FL	1,612	5,530	3,918
San Antonio, TX	4,005	7,480	3,475
Denver, CO	13,918	17,370	3,452
Oklahoma City, OK	3,170	6,030	2,860
Richmond, VA	2,964	5,570	2,606
Orlando, FL	8,806	10,960	2,154
San Diego, CA	12,382	14,380	1,998
Sacramento, CA	5,977	7,970	1,993
Detroit, MI	21,155	22,710	1,555
Omaha, NE	2,916	4,240	1,324
Madison, WI	6,695	7,910	1,215
Hartford, CT	5,150	3,590	-1,560
Columbus, OH	18,898	16,820	-2,078
St. Louis, MO	6,485	3,830	-2,655
Virginia Beach, VA	6,828	3,990	-2,838
Phoenix, AZ	23,969	20,870	-3,099
Salt Lake City, UT	13,155	9,900	-3,255
Philadelphia, PA	19,891	16,550	-3,341
Rochester, NY Pittsburgh, PA Los Angeles, CA Washington, D.C. Boston, MA	8,953	3,250	-5,703
	17,795	8,140	-9,655
	45,968	33,080	-12,888
	56,623	40,270	-16,353
	31,400	11,790	-19,610

Source: CBRE Research, U.S. Bureau of Labor Statistics, The National Center for Education Statistics (Region)

Los Angeles Metro Area includes Orange County
New York Metro Area includes Newark and Long Island
Miami Metro Area includes Ft. Lauderdale

Columbus Metro Area include Columbus, Cleveland and Cincinnati

Bay Area Metro Area includes San Francisco, Oakland and Silicon Valley
Chicago Metro Area includes Chicago and Milwaukee
Washington D.C. Metro Area includes Baltimore
*Tech degrees cover the most recent five-year period available (2011-2015) and tech jobs added cover the time period reflecting when most graduates would be counted in employment figures (2012-2016).

TABLE 9
TOP 10 MOST CONCENTRATED
MILLENNIAL MARKETS* (2016)

<u>Market</u>	Population Concentration of Millennials
UNITED STATES	14.2%
Madison, WI	26.5%
Pittsburgh, PA	25.3%
Boston, MA	24.6%
Richmond, VA	21.8%
Salt Lake City, UT	21.8%
Hartford, CT	21.8%
Minneapolis, MN	21.7%
Orlando, FL	21.6%
Seattle, WA	20.4%
Columbus, OH	20.3%

^{*} Millennials aged 20-29 years living in downtown areas.. Source: U.S. Census Bureau (City/County), 2016.

TABLE 11 TOP AND BOTTOM 10 MARKETS BY GENDER DIVERSITY IN TECH OCCUPATIONS (2015)

Market	% Male	% Female
Washington, D.C. ▼ TOP 10	68.20	31.80
Baltimore, MD (most diverse)	68.80	31.20
Hartford, CT	69.50	30.50
Sacramento, CA	69.80	30.20
Richmond, VA	70.20	29.80
Raleigh-Durham, NC	70.30	29.70
Boston, MA	71.20	28.80
Minneapolis, MN	71.50	28.50
Philadelphia, PA	71.60	28.40
San Antonio, TX	72.00	28.00
Kansas City, MO BOTTOM 10	79.20	20.80
Salt Lake City, UT (least diverse)	78.90	21.10
Phoenix, AZ	78.60	21.40
Seattle, WA	77.30	22.70
Oklahoma City, OK	77.20	22.80
Austin, TX	76.80	23.20
Cincinnati, OH	76.50	23.50
Detroit, MI	75.91	24.09
Cleveland, OH	75.90	24.10
Indianapolis, IN	75.90	24.10

Source: U.S. Census Bureau (City/County), 2016.

TABLE 10 MILLENNIAL POPULATION CHANGE BY MARKET* (2010-2015)

U.S. Average = 4.6%

o.o. Average -	110 / 0	
Labor Pool Size	Market	% Change
Large Tech Talent Markets (>50,000 Labor Pool)	Seattle, WA Raleigh-Durham, NC Toronto, ON SF Bay Area, CA Atlanta, GA Detroit, MI Houston, TX Phoenix, AZ Denver, CO Los Angeles, CA Washington, D.C. Orange County, CA Austin, TX Vancouver, BC Dallas/Ft. Worth, TX New York, NY San Diego, CA Philadelphia, PA Boston, MA Newark, NJ Baltimore, MD Chicago, IL Minneapolis, MN St. Louis, MO Portland, OR Kansas City, MO	16.6% 11.2% 9.5% 9.5% 9.3% 9.29% 8.5% 7.1% 7.0% 6.4% 5.9% 5.7% 5.5% 5.3% 3.8% 2.6% 1.1% 0.9% 0.8% 0.5% -0.9% -1.4% -2.2% -5.3% 1.2% 0.5%
Small Tech Talent Markets (<50,000 Labor Pool)	Pittsburgh, PA Hartford, CT San Antonio, TX Cleveland, OH Charlotte, NC Orlando, FL Long Island, NY Salt Lake City, UT Sacramento, CA Madison, WI Miami, FL Nashville, TN Columbus, OH Tampa, FL Virginia Beach, VA Jacksonville, FL Indianapolis, IN Richmond, VA Rochester, NY Omaha, NE Ft. Lauderdale, FL Oklahoma City, OK Milwaukee, WI Cincinnati, OH	17.7% 17.7% 17.7% 15.6% 13.7% 13.3% 12.3% 8.7% 8.4% 7.5% 7.3% 7.0% 6.8% 6.4% 6.3% 5.5% 4.1% 3.6% 1.3% 0.7% -0.2% -1.3% -1.27% s aged 20-29 Years.

* Millennials aged 20-29 Years. Source: U.S. Bureau of Labor Statistics April 2016, Statistics Canada May 2017, CBRE Econometric Advisors, Axiometrics, CMHC, Q1 2017; U.S. Census Bureau (City/County), 2016.

TABLE 12 TECH TALENT LABOR CONCENTRATION BY INDUSTRY (2016)

Tech Talent Occupations as a % of All Occupations in Each Industry

Industry	Tech-Talent as % of Total Industry Occupations
Core High-Tech*	49.8%
Management of Companies and Enterprises	12.8%
Professional, Scientific, and Technical Services (Excluding High-Tech)	7.7%
Information (Excluding High-Tech)	14.0%
FIRE	5.0%
Total U.S. Employment	3.5%
Government	3.1%
Transportation, Warehousing, and Wholesale	2.2%
Manufacturing (Excluding High-Tech)	2.0%
Education	1.8%
Other	0.8%
Healthcare	0.7%

*Includes computer software and services and computer product manufacturing.

Source: U.S. Bureau of Labor Statistics (National), April 2017.

TECH TALENT HAS UNIQUE CONCENTRATIONS ACROSS MARKETS

TABLE 13
TECH TALENT BY TYPE: SOFTWARE DEVELOPERS AND PROGRAMMERS

Ranked by % of Tech Talent

<u>Market</u>	Software Developers & Programmers	% of Tech Talent	Market	Software Developers & Programmers	% of Tech Talent
Seattle, WA	70,740	52%	Cleveland, OH	10,330	32%
SF Bay Area, CA	147,580	45%	Phoenix, AZ	26,700	32%
Boston, MA	47,840	41%	Tampa, FL	14,220	31%
New York, NY	100,310	41%	Detroit, MI	24,500	31%
Madison, WI	9,490	41%	Miami, FL	7,540	31%
Portland, OR	20,410	40%	Indianapolis, IN	10,880	31%
Salt Lake City, UT	12,130	38%	Chicago, IL	44,390	31%
Sacramento, CA	14,680	37%	Dallas/Ft. Worth, TX	49,410	31%
Orange County, CA	25,360	37%	Charlotte, NC	15,250	31%
Austin, TX	25,150	37%	Pittsburgh, PA	12,760	30%
San Diego, CA	23,870	36%	Minneapolis, MN	28,630	30%
Newark, NJ	18,910	36%	Washington, D.C.	73,100	30%
Denver, CO	27,750	36%	Kansas City, MO	15,400	30%
Ft. Lauderdale, FL	7,770	35%	Long Island, NY	8,810	29%
Philadelphia, PA	26,910	35%	Rochester, NY	6,290	29%
Los Angeles, CA	43,480	34%	San Antonio, TX	8,680	28%
Omaha, NE	7,110	34%	Milwaukee, WI	8,660	28%
Raleigh-Durham, NC	20,600	34%	Oklahoma City, OK	5,330	28%
Vancouver, BC	22,000	34%	Cincinnati, OH	10,170	28%
Columbus, OH	16,080	33%	Houston, TX	27,020	28%
Richmond, VA	8,290	33%	Baltimore, MD	20,010	28%
Atlanta, GA	44,290	33%	St. Louis, MO	14,170	27%
Hartford, CT	8,050	33%	Nashville, TN	7,400	27%
Jacksonville, FL	6,170	32%	Toronto, ON	52,100	25%
Orlando, FL	11,450	32%	Virginia Beach, VA	6,750	24%

Note: Software developers include: computer programmers; software application developers, software systems software developers, and web developers.

Source: U.S. Bureau of Labor Statistics, April 2017.

TABLE 14 TECH TALENT BY TYPE: COMPUTER, SUPPORT DATABASE & SYSTEMS Ranked by % of Tech Talent

Market	Computer, Support Database & Systems	% of Tech Talent	Market	Computer, Support Database & Systems	% of Tech Talent
San Antonio, TX	18,190	60%	Philadelphia, PA	39,310	51%
St. Louis, MO	30,500	58%	Rochester, NY	10,870	51%
Cincinnati, OH	20,650	57%	Pittsburgh, PA	21,280	51%
Washington, D.C.	136,680	56%	Atlanta, GA	67,510	50%
Tampa, FL	25,340	56%	Denver, CO	38,050	49%
Miami, FL	13,490	56%	Long Island, NY	14,590	49%
Jacksonville, FL	10,450	55%	Raleigh-Durham, NC	29,630	49%
Baltimore, MD	39,560	54%	Oklaĥoma City, OK	9,180	48%
Indianapolis, IN	18,990	54%	Hartford, CT	11,660	47%
Chicago, IL	77,120	54%	Detroit, MI	36,960	47%
Phoenix, AZ	44,720	54%	Los Angeles, CA	58,990	47%
Omaha, NE	11,170	54%	Madison, WI	10,860	47%
Charlotte, NC	26,650	53%	Austin, TX	31,910	46%
Nashville, TN	14,570	53%	Newark, NJ	24,070	46%
Milwaukee, WI	16,450	53%	New York, NY	109,870	45%
Columbus, OH	25,700	53%	Sacramento, CA	17,150	43%
Ft. Lauderdale, FL	11,910	53%	Salt Lake City, UT	13,440	42%
Richmond, VA	13,200	53%	Portland, OR	21,320	42%
Kansas City, MO	27,390	53%	Orange County, CA	27,230	40%
Minneapolis, MN	50,330	53%	Toronto, ON	83,600	39%
Dallas/Ft. Worth, TX	84,750	53%	Boston, MA	43,900	38%
Orlando, FL	18,330	52%	San Diego, CA	23,620	36%
Houston, TX	50,530	52%	Seattle, WA	46,240	34%
Virginia Beach, VA	14,260	52%	SF Bay Area, CA	107,560	33%
Cleveland, OH	16,480	51%	Vancouver, BC	19,900	31%

Note: Computer Support, Database & Systems include: computer and information research scientists, computer systems analysts, information security analysts, database administrators, network and computer systems administrators, computer network architects, computer user support specialists, computer network support specialists, and all other computer occupations.

Source: U.S. Bureau of Labor Statistics, April 2017.

TABLE 15
TECH TALENT BY TYPE: COMPUTER & INFORMATION SYSTEMS MANAGERS
Ranked by % of Tech Talent

Market	Computer & Information Systems Managers	% of Tech Talent	Market	Computer & Information Systems Managers	% of Tech Talent
Toronto, ON	26,000	12%	Seattle, WA	9,860	7%
Hartford, CT	2,990	12%	Philadelphia, PA	5,530	7%
Nashville, TN	3,040	11%	Los Angeles, CA	8,910	7%
Newark, NJ	5,340	10%	Richmond, VA	1,720	7%
Vancouver, BC	6,500	10%	Madison, WI	1,600	7%
New York, NY	24,120	10%	Pittsburgh, PA	2,870	7%
Boston, MA	11,200	10%	Phoenix, AZ	5,570	7%
Charlotte, NC	4,800	10%	Detroit, MI	5,080	6%
Minneapolis, MN	8,530	9%	Omaha, NE	1,310	6%
Oklahoma City, OK	1,680	9%	San Diego, CA	4,160	6%
Salt Lake City, UT	2,810	9%	Ft. Lauderdale, FL	1,390	6%
Cincinnati, OH	3,190	9%	St. Louis, MO	3,240	6%
Long Island, NY	2,560	9%	Baltimore, MD	4,380	6%
Milwaukee, WI	2,590	8%	Houston, TX	5,790	6%
Cleveland, OH	2,640	8%	Rochester, NY	1,270	6%
Portland, OR	4,160	8%	Orlando, FL	2,060	6%
Chicago, IL	11,410	8%	Sacramento, CA	2,290	6%
Atlanta, GA	10,620	8%	Miami, FL	1,370	6%
Raleigh-Durham, NC	4,730	8%	Denver, CO	4,290	6%
SF Bay Area, CA	25,440	8%	Jacksonville, FL	1,030	5%
Columbus, OH	3,720	8%	Dallas/Ft. Worth, TX	8,220	5%
Washington, D.C.	17,620	7%	Tampa, FL	2,210	5%
Indianapolis, IN	2,530	7%	Virginia Beach, VA	1,280	5%
Orange County, CA	4,920	7%	Austin, TX	3,030	4%
Kansas City, MO	3,730	7%	San Antonio, TX	1,150	4%

Source: U.S. Bureau of Labor Statistics, April 2017.

TABLE 16
TECH TALENT BY TYPE: TECHNOLOGY ENGINEERING-RELATED

Ranked by % of Tech Talent

Market	Technology Engineering Related	% of Tech Talent	Market	Technology Engineering Related	% of Tech Talent
Vancouver, BC	16,700	26%	Atlanta, GA	11,390	9%
Toronto, ON	50,800	24%	Cleveland, OH	2,670	8%
San Diego, CA	14,690	22%	Nashville, TN	2,260	8%
Virginia Beach, VA	5,370	19%	St. Louis, MO	4,280	8%
Orange County, CA	10,710	16%	San Antonio, TX	2,490	8%
Detroit, MI	11,970	15%	Newark, NJ	4,280	8%
Oklahoma City, OK	2,780	15%	Minneapolis, MN	7,730	8%
Houston, TX	14,210	15%	Tampa, FL	3,570	8%
SF Bay Area, CA	47,490	14%	Hartford, CT	1,920	8%
Rochester, NY	3,080	14%	Philadelphia, PA	5,950	8%
Sacramento, CA	5,310	13%	Indianapolis, IN	2,610	7%
Long Island, NY	3,910	13%	Phoenix, AZ	6,150	7%
Austin, TX	8,720	13%	Miami, FL	1,780	7%
Pittsburgh, PA	5,220	12%	Seattle, WA	10,070	7%
Los Angeles, CA	15,350	12%	Jacksonville, FL	1,370	7%
Baltimore, MD	8,760	12%	Chicago, IL	10,270	7%
Dallas/Ft. Worth, TX	18,770	12%	Richmond, VA	1,730	7%
Boston, MA	12,620	11%	Cincinnati, OH	2,440	7%
Salt Lake City, UT	3,370	11%	Washington, D.C.	15,960	7%
Kansas City, MO	5,250	10%	Charlotte, NC	3,130	6%
Milwaukee, WI	3,110	10%	Madison, WI	1,400	6%
Orlando, FL	3,480	10%	Ft. Lauderdale, FL	1,300	6%
Portland, OR	4,990	10%	Omaha, NE	1,190	6%
Raleigh-Durham, NC	5,940	10%	Columbus, OH	2,730	6%
Denver, CO	7,220	9%	New York, NY	11,880	5%

Note: Technology Engineering-Related includes: computer programmers; computer hardware engineers, electrical engineers, electronics engineers except computer, electrical and electronics drafters, electrical and electronics engineering technicians, and electro-mechanical technicians.

Source: U.S. Bureau of Labor Statistics, April 2017.

WHAT ARE THE HIGHEST- AND LOWEST-COST MARKETS TO OPERATE IN?

TABLE 17
TECH TALENT WAGES BY MARKET (2016)

U.S Average = 100%

Market	Average Tech Talent Wage	Wage Relative to U.S. Average	Talent Wage 5 yr. Growth	Market	Average Tech Talent Wage	Wage Relative to U.S. Average	Talent Wage 5 yr. Growth
SF Bay Area, CA	\$123,158	133%	14%	Portland, OR	\$90,040	97%	13%
Seattle, WA	\$113,906	123%	21%	San Antonio, TX	\$88,109	95%	16%
New York, NY	\$108,878	118%	16%	St. Louis, MO	\$87,174	94%	13%
Washington, D.C.	\$108,330	117%	9%	Phoenix, AZ	\$86,231	93%	10%
Newark, NJ	\$107,612	116%	11%	Virginia Beach, VA	\$84,514	91%	11%
Boston, MA	\$103,979	113%	9%	Detroit, MI	\$83,482	90%	9%
Denver, CO	\$100,383	109%	20%	Cincinnati, OH	\$83,390	90%	12%
San Diego, CA	\$100,258	108%	13%	Kansas City, MO	\$83,024	90%	9%
Orange County, CA	\$99,256	107%	11%	Salt Lake City, UT	\$82,803	90%	13%
Baltimore, MD	\$98,824	107%	12%	Toronto, ON*	\$82,385	89%	15%
Hartford, CT	\$96,225	104%	15%	Orlando, FL	\$82,313	89%	13%
Los Angeles, CA	\$95,617	103%	7%	Jacksonville, FL	\$80,585	87%	19%
Houston, TX	\$95,229	103%	15%	Pittsburgh, PA	\$80,432	87%	12%
Raleigh-Durham, NC	\$94,400	102%	15%	Omaha, NE	\$80,155	87%	10%
Philadelphia, PA	\$93,551	101%	10%	Ft. Lauderdale, FL	\$79,484	86%	15%
Dallas/Ft. Worth, TX	\$93,339	101%	9%	Nashville, TN	\$79,421	86%	13%
Charlotte, NC	\$93,105	101%	8%	Vancouver, BC*	\$79,402	86%	13%
Long Island, NY	\$92,546	100%	9%	Milwaukee, WI	\$79,368	86%	8%
Columbus, OH	\$92,510	100%	20%	Tampa, FL	\$78,434	85%	6%
Atlanta, GA	\$92,380	100%	16%	Cleveland, OH	\$78,378	85%	12%
Sacramento, CA	\$91,892	99%	8%	Madison, WI	\$77,773	84%	9%
Minneapolis, MN	\$91,686	99%	12%	Indianapolis, IN	\$77,672	84%	8%
Austin, TX	\$91,443	99%	8%	Rochester, NY	\$77,649	84%	9%
Chicago, IL	\$91,200	99%	12%	Miami, FL	\$75,700	82%	2%
Richmond, VA	\$90,470	98%	13%	Oklahoma City, OK	\$74,424	81%	13%

^{*}in CAD; Source: U.S. Bureau of Labor Statistics (Metro Area), April 2017.

TABLE 18 AVERAGE U.S. TECH COMPANY OCCUPATION POOLS

500 Employees

Occupation Pools	Employees	% of Total Labor
Tech Talent Employees*	250	50%
Support Non-Tech Employees (excluding Management)	213	42%
Management	37	8%

Source: U.S. Bureau of Labor Statistics (National), April 2017.

* Tech Talent includes the following occupation categories: software developers and programmers; computer support, database and systems; technology and engineering related; and computer information system managers.

TABLE 19
ESTIMATED ONE-YEAR WAGE AND RENT OBLIGATIONS FOR SAMPLE
U.S.-BASED TECH FIRM BY MARKET

Sample Tech Firm Estimates: 500 Employees, 75,000 Sq. Ft.

Market	Rent Cost	Tech Talent Wages	Support Non-Tech Wages	Management Wages	Total
	(Avg Rent x 75,000 SF)	(Avg. Wage x 250 People)	(Avg. Wage x 213 People)	(Avg. Wage x 37 People)	Estimated Cost
SF Bay Area, CA	\$4,606,500	\$30,789,506	\$14,961,546	\$7,058,433	\$57,415,984
New York, NY	\$5,709,750	\$27,219,566	\$12,445,590	\$6,857,580	\$52,232,486
Washington, D.C.	\$2,793,000	\$27,082,593	\$14,373,118	\$6,106,387	\$50,355,097
Seattle, WA	\$2,393,211	\$28,476,566	\$12,661,133	\$5,774,220	\$49,305,131
Boston, MA	\$2,693,250	\$25,994,778	\$14,576,459	\$5,723,900	\$48,988,387
Newark, NJ	\$1,930,500	\$26,903,042	\$11,510,307	\$6,567,500	\$46,911,349
Denver, CO	\$1,973,250	\$25,095,733	\$12,608,320	\$6,095,010	\$45,772,313
San Diego, CA	\$2,514,311	\$25,064,461	\$11,266,141	\$6,016,940	\$44,861,853
Orange County, CA	\$2,403,000	\$24,813,877	\$12,041,812	\$5,284,710	\$44,543,399
Houston, TX	\$2,218,500	\$23,807,211	\$12,544,424	\$5,823,800	\$44,393,935
Los Angeles, CA	\$2,738,431	\$23,904,222	\$11,949,056	\$5,799,380	\$44,391,090
Austin, TX	\$2,541,750	\$22,860,779	\$12,617,375	\$5,703,180	\$43,723,085
Baltimore, MD	\$1,685,250	\$24,705,908	\$11,862,947	\$5,279,530	\$43,533,635
Philadelphia, PA	\$1,995,000	\$23,387,633	\$12,092,674	\$5,966,990	\$43,442,297
Long Island, NY	\$2,006,250	\$23,136,619	\$12,142,161	\$5,966,990	\$43,252,020
Dallas/Ft. Worth, TX	\$1,796,250	\$23,334,635	\$12,248,403	\$5,801,793	\$43,181,082
Hartford, CT	\$1,487,250	\$24,056,316	\$11,948,182	\$5,376,840	\$42,868,588
Minneapolis, MN	\$1,993,500	\$22,921,399	\$12,036,357	\$5,254,000	\$42,205,256
Chicago, IL	\$2,226,000	\$22,800,090	\$11,820,630	\$5,181,850	\$42,028,571
Raleigh-Durham, NC	\$1,854,750	\$23,600,083	\$11,368,141	\$5,142,053	\$41,965,027
Charlotte, NC	\$1,841,250	\$23,276,138	\$11,050,209	\$5,295,070	\$41,462,667
Atlanta, GA	\$1,828,500	\$23,095,030	\$11,288,020	\$5,173,340	\$41,384,891
Columbus, OH	\$1,442,250	\$23,127,524	\$10,843,517	\$5,477,850	\$40,891,140
Richmond, VA	\$1,466,205	\$22,617,456	\$11,195,630	\$5,374,250	\$40,653,541
Sacramento, CA	\$1,611,000	\$22,973,093	\$11,020,689	\$4,947,640	\$40,552,422
San Antonio, TX	\$1,632,000	\$22,027,208	\$11,080,945	\$5,776,440	\$40,516,593
Portland, OR	\$2,015,250	\$22,509,900	\$11,006,638	\$4,899,540	\$40,431,329
Phoenix, AZ	\$1,863,750	\$21,557,673	\$10,291,074	\$5,249,190	\$38,961,687
Detroit, MI	\$1,380,000	\$20,870,533	\$11,522,909	\$5,014,142	\$38,787,585
St. Louis, MO	\$1,399,500	\$21,793,568	\$10,348,439	\$5,131,160	\$38,672,667
Virginia Beach, VA	\$1,407,750	\$21,128,435	\$10,649,339	\$5,201,090	\$38,386,614
Cincinnati, OH	\$1,431,750	\$20,847,602	\$10,989,513	\$4,736,740	\$38,005,606
Ft. Lauderdale, FL	\$2,379,000	\$19,871,113	\$10,181,506	\$5,189,990	\$37,621,609
Pittsburgh, PA	\$1,634,250	\$20,107,965	\$10,918,471	\$4,857,730	\$37,518,416
Milwaukee, WI	\$1,371,000	\$19,842,064	\$11,594,772	\$4,597,990	\$37,405,827
Kansas City, MO	\$1,381,500	\$20,755,951	\$10,477,658	\$4,749,690	\$37,364,799
Orlando, FL	\$1,572,750	\$20,578,211	\$9,658,866	\$5,220,700	\$37,030,528
Cleveland, OH	\$1,353,750	\$19,594,454	\$11,258,375	\$4,794,830	\$37,001,408
Miami, FL	\$2,733,000	\$18,924,926	\$10,266,416	\$4,974,650	\$36,898,991
Madison, WI	\$1,455,000	\$19,443,166	\$11,513,153	\$4,342,690	\$36,754,009
Salt Lake City, UT	\$1,780,500	\$20,700,658	\$10,040,307	\$4,002,290	\$36,523,756
Tampa, FL	\$1,700,250	\$19,608,621	\$9,780,633	\$5,381,280	\$36,470,784
Omaha, NE	\$1,464,000	\$20,038,872	\$10,230,822	\$4,548,040	\$36,281,734
Rochester, NY	\$1,462,500	\$19,412,227	\$10,472,455	\$4,893,250	\$36,240,432
Indianapolis, IN	\$1,407,000	\$19,418,121	\$10,992,643	\$4,247,600	\$36,065,364
Nashville, TN	\$1,869,750	\$19,855,301	\$10,344,981	\$3,991,190	\$36,061,222
Jacksonville, FL	\$1,430,250	\$20,146,232	\$9,517,984	\$4,576,530	\$35,670,996
Oklahoma City, OK	\$1,296,000	\$18,606,115	\$9,964,585	\$3,819,140	\$33,685,840
Toronto, ON*	\$1,913,318	\$11,802,660	\$9,308,604	\$2,903,021	\$25,927,603
Vancouver, BC*	\$1,720,866	\$11,375,309	\$8,566,251	\$2,658,922	\$24,321,348

*in USD; Source: U.S. Bureau of Labor Statistics, April 2017, Canada Statistics April 2017, CBRE Research (Metro Area), Q1 2017.

HOW DOES TECH TALENT IMPACT COMMERCIAL REAL ESTATE?

TABLE 20
OFFICE ASKING RENT BY MARKET (Q1 2017)

Market	Annual Gross Direct Asking Rent	Office Rent 5 Year Growth	Market	Annual Gross Direct Asking Rent	Office Rent 5 Year Growth
New York, NY	\$76.13	37%	Atlanta, GA	\$24.38	24%
SF Bay Area, CA	\$61.42	64%	Dallas/Ft. Worth, TX	\$23.95	33%
Vancouver, BC*	\$40.04	25%	Salt Lake City, UT	\$23.74	23%
Washington, D.C.	\$37.24	5%	Tampa, FL	\$22.67	15%
Los Angeles, CA	\$36.51	28%	Baltimore, MD	\$22.47	12%
Miami, FL	\$36.44	21%	Pittsburgh, PA	\$21.79	10%
Boston, MA	\$35.91	30%	San Antonio, TX	\$21.76	4%
Austin, TX	\$33.89	33%	Sacramento, CA	\$21.48	5%
Toronto, ON*	\$33.70	0%	Orlando, FL	\$20.97	4%
San Diego, CA	\$33.52	30%	Hartford, CT	\$19.83	1%
Orange County, CA	\$32.04	38%	Richmond, VA	\$19.55	8%
Seattle, WA	\$31.91	26%	Omaha, NE	\$19.52	11%
Ft. Lauderdale, FL	\$31.72	21%	Rochester, NY	\$19.50	2%
Chicago, IL	\$29.68	12%	Madison, WI	\$19.40	11%
Houston, TX	\$29.58	27%	Columbus, OH	\$19.23	10%
Portland, OR	\$26.87	31%	Cincinnati, OH	\$19.09	-1%
Long Island, NY	\$26.75	1%	Jacksonville, FL	\$19.07	11%
Philadelphia, PA	\$26.60	8%	Virginia Beach, VA	\$18.77	-12%
Minneapolis, MN	\$26.58	18%	Indianapolis, IN	\$18.76	9%
Denver, CO	\$26.31	33%	St. Louis, MO	\$18.66	2%
Newark, NJ	\$25.74	3%	Kansas City, MO	\$18.42	9%
Nashville, TN	\$24.93	38%	Detroit, MI	\$18.40	5%
Phoenix, AZ	\$24.85	20%	Milwaukee, WI	\$18.28	6%
Raleigh-Durham, NC	\$24.73	28%	Cleveland, OH	\$18.05	7%
Charlotte, NC	\$24.55	25%	Oklahoma City, OK	\$17.28	14%

*in CAD; Source: CBRE Research (Office Market), Q1 2017.

TABLE 21
OFFICE VACANCY RATE BY MARKET (Q1 2017)

Market	Vacancy Rate	5 Years Ago (Q1 2012)	Market	Vacancy Rate	5 Years Ago (Q1 2012)
SF Bay Area, CA	7.7%	11.6%	Baltimore, MD	14.0%	16.8%
New York, NY	7.7%	7.6%	Raleigh-Durham, NC	14.0%	18.0%
Madison, WI	8.0%	12.5%	Philadelphia, PA	14.1%	18.4%
Nashville, TN	8.1%	12.6%	St. Louis, MO	14.2%	17.6%
Charlotte, NC	8.1%	20.1%	Denver, CO	14.2%	15.4%
Toronto, ON	9.0%	7.9%	Los Angeles, CA	14.3%	17.8%
Orange County, CA	9.3%	15.1%	Sacramento, CA	14.5%	23.7%
Austin, TX	9.5%	16.4%	San Antonio, TX	14.6%	17.5%
Vancouver, BC	10.1%	7.6%	Rochester, NY	14.8%	19.5%
Long Island, NY	10.4%	14.8%	Chicago, IL	15.0%	17.3%
Orlando, FL	10.4%	19.2%	Oklahoma City, OK	15.1%	12.8%
Miami, FL	10.9%	19.2%	Virginia Beach, VA	15.6%	17.6%
Portland, OR	11.2%	15.2%	Jacksonville, FL	15.9%	23.3%
Omaha, NE	11.2%	15.2%	Hartford, CT	16.0%	18.6%
Tampa, FL	11.2%	20.4%	Indianapolis, IN	16.4%	19.2%
San Diego, CA	11.5%	16.8%	Washington, D.C.	16.5%	13.4%
Salt Lake City, UT	11.6%	15.5%	Newark, NJ	16.6%	15.8%
Seattle, WA	11.7%	17.2%	Minneapolis, MN	16.7%	18.7%
Richmond, VA	11.8%	16.5%	Detroit, MI	16.7%	26.9%
Pittsburgh, PA	11.9%	10.2%	Houston, TX	16.8%	14.5%
Columbus, OH	12.3%	18.2%	Atlanta, GA	16.9%	23.3%
Kansas City, MO	12.8%	17.6%	Phoenix, AZ	17.3%	26.0%
Ft. Lauderdale, FL	12.9%	19.2%	Cleveland, OH	18.4%	21.2%
Milwaukee, WI	13.0%	16.7%	Cincinnati, OH	18.8%	23.1%
Boston, MA	13.7%	15.5%	Dallas/Ft. Worth, TX	19.1%	19.9%

Source: CBRE Research (Office Market), Q1 2017.

TABLE 22
APARTMENT ASKING RENT BY MARKET (Q1 2017)

Market	Apartment Rent	Apt Rent 5 Year Growth	Market	Apartment Rent	Apt Rent 5 Year Growth
New York, NY	\$4,418	17%	Madison, WI	\$1,137	17%
SF Bay Area, CA	\$2,790	38%	Nashville, TN	\$1,123	33%
Long Ísland, NY	\$2,218	17%	Tampa, FL	\$1,113	23%
Los Angeles, CA	\$2,214	24%	Atlanta, GA	\$1,108	29%
Boston, MA	\$2,154	20%	Dallas/Ft. Worth, TX	\$1,094	26%
Orange County, CA	\$1,986	19%	Pittsburgh, PA	\$1,075	-3%
San Diego, CA	\$1,895	25%	Rochester, NY	\$1,056	22%
Newark, NJ	\$1,732	12%	Houston, TX	\$1,051	14%
Washington, D.C.	\$1,696	7%	Salt Lake City, UT	\$1,044	28%
Seattle, WA	\$1,694	37%	Raleigh-Durham, NC	\$1,039	20%
Miami, FL	\$1,664	22%	Charlotte, NC	\$1,032	24%
Ft. Lauderdale, FL	\$1,548	26%	Virginia Beach, VA	\$1,027	5%
Chicago, IL	\$1,512	21%	Richmond, VA	\$1,007	11%
Denver, CO	\$1,395	39%	Detroit, MI	\$958	18%
Sacramento, CA	\$1,373	39%	Phoenix, AZ	\$956	26%
Portland, OR	\$1,370	39%	Jacksonville, FL	\$956	16%
Vancouver, BC*	\$1,313	17%	Kansas City, MO	\$940	14%
Hartford, CT	\$1,284	11%	San Antonio, TX	\$927	11%
Philadelphia, PA	\$1,278	8%	St. Louis, MO	\$916	20%
Minneapolis, MN	\$1,262	19%	Cincinnati, OH	\$902	16%
Baltimore, MD	\$1,255	10%	Cleveland, OH	\$894	11%
Toronto, ON*	\$1,233	12%	Omaha, NE	\$883	26%
Austin, TX	\$1,201	23%	Columbus, OH	\$874	19%
Orlando, FL	\$1,164	28%	Indianapolis, IN	\$820	15%
Milwaukee, WI	\$1,145	15%	Oklahoma City, OK	\$704	5%

*in CAD; Source: CBRE Econometric Advisors (City), Axiometrics, CMHC, Q1 2017. Note: New York represents Manhattan only.

TABLE 23
COST OF LIVING RELATIVE TO U.S. AVERAGE
U.S. Average = 100%

Market	Cost of Living	Market	Cost of Living	Market	Cost of Living
Bay Area, CA	151%	Salt Lake City, UT	106%	Chicago, IL	98%
Orange County, CA	145%	Sacramento, CA	106%	Milwaukee, WI	98%
San Diego, CA	126%	Hartford, CT	106%	Virginia Beach, VA	98%
New York, NY	125%	Dallas/Ft. Worth, TX	105%	Vancouver, BC	97%
Long Island, NY	125%	Phoenix, AZ	105%	Oklahoma City, OK	97%
Seattle, WA	123%	Orlando, FL	103%	Kansas City, MO	96%
Los Angeles, CA	123%	Nashville, TN	102%	Columbus, OH	95%
Washington, D.C.	122%	San Antonio, TX	102%	St. Louis, MO	94%
Newark, NJ	122%	Atlanta, GA	101%	Pittsburgh, PA	93%
Boston, MA	119%	Minneapolis, MN	101%	Omaha, NE	93%
Miami, FL	113%	Madison, WI	101%	Indianapolis, IN	92%
Austin, TX	112%	Jacksonville, FL	101%	Detroit, MI	92%
Fort Lauderdale, FL	111%	Tampa, FL	100%	Cincinnati, OH	91%
Denver, CO	109%	Raleigh-Durham, NC	99%	Toronto, ON	91%
Portland, OR	108%	Philadelphia, PA	99%	Cleveland, OH	90%
Houston, TX	108%	Charlotte, NC	99%	Rochester, NY	89%
Baltimore, MD	107%	Richmond, VA	99%		

Source: Moody's Analytics, Numbeo, Q1 2017.

TABLE 24
TECH WAGE TO APARTMENT RENT RATIO

Market	Annualized	2016 Average	Rent-to-Tech
	Apartment Rent	Annual Tech Wage	Wage Ratio
New York, NY	\$53,015	\$108,878	30.8%
Long Island, NY	\$26,620	\$92,546	28.8%
Los Angeles, CA	\$26,564	\$95,617	27.8%
SF Bay Area, CA	\$33,483	\$123,158	27.2%
Miami, FL	\$19,964	\$75,700	26.4%
Boston, MA	\$25,845	\$103,979	24.9%
Orange County, CA	\$23,834	\$99,256	24.0%
Ft. Lauderdale, FL	\$18,570	\$79,484	23.4%
San Diego, CA	\$22,735	\$100,258	22.7%
Chicago, IL	\$18,139	\$91,200	19.9%
Vancouver, BC*	\$15,756	\$79,402	19.8%
Newark, NJ	\$20,785	\$107,612	19.3%
Washington, D.C.	\$20,350	\$108,330	18.7%
Portland, OR	\$16,441	\$90,040	18.3%
Toronto, ON*	\$14,796	\$82,385	18.0%
Sacramento, CA	\$16,473	\$91,892	17.9%
Seattle, WA	\$20,328	\$113,906	17.8%
Madison, WI	\$13,647	\$77,773	17.5%
Milwaukee, WI	\$13,746	\$79,368	17.3%
Tampa, FL	\$13,354	\$78,434	17.0%
Orlando, FL	\$13,971	\$82,313	17.0%
Nashville, TN	\$13,474	\$79,421	17.0%
Denver, CO	\$16,741	\$100,383	16.7%
Minneapolis, MN	\$15,146	\$91,686	16.5%
Philadelphia, PA	\$15,338	\$93,551	16.4%
Rochester, NY	\$12,675	\$77,649	16.3%
Pittsburgh, PA	\$12,898	\$80,432	16.0%
Hartford, CT	\$15,411	\$96,225	16.0%
Austin, TX	\$14,408	\$91,443	15.8%
Baltimore, MD	\$15,054	\$98,824	15.2%
Salt Lake City, UT	\$12,528	\$82,803	15.1%
Virginia Beach, VA	\$12,319	\$84,514	14.6%
Atlanta, GA	\$13,301	\$92,380	14.4%
Jacksonville, FL	\$11,469	\$80,585	14.2%
Dallas/Ft. Worth, TX	\$13,127	\$93,339	14.1%
Detroit, MI	\$11,490	\$83,482	13.8%
Cleveland, OH	\$10,726	\$78,378	13.7%
Kansas City, MO	\$11,285	\$83,024	13.6%
Richmond, VA	\$12,089	\$90,470	13.4%
Phoenix, AZ	\$11,478	\$86,231	13.3%
Charlotte, NC	\$12,386	\$93,105	13.3%
Houston, TX	\$12,613	\$95,229	13.2%
Omaha, NE	\$10,600	\$80,155	13.2%
Raleigh-Durham, NC	\$12,464	\$94,400	13.2%
Cincinnati, OH	\$10,825	\$83,390	13.0%
Indianapolis, IN	\$9,836	\$77,672	12.7%
San Antonio, TX	\$11,121	\$88,109	12.6%
St. Louis, MO	\$10,989	\$87,174	12.6%
Oklahoma City, OK	\$8,452	\$74,424	11.4%
Columbus, OH	\$10,491	\$92,510	11.3%

^{*}in CAD; Source: U.S. Bureau of Labor Statistics April 2016, Statistics Canada May 2017, CBRE Econometric Advisors, Axiometrics, CMHC, Q1 2017.

CONTACTS



Visit the <u>Scoring Tech Talent website</u> for an interactive report overview.

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