

Evolving Workforces

# U.S. Life Sciences Talent Trends 2024

REPORT

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Identifying America's  
Most Compelling  
Clusters of Life  
Sciences Talent

CBRE RESEARCH  
JUNE 2024

CBRE



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01

# Executive Summary

This year, our expanded analysis covers the nation's top 100 markets, including rankings for life sciences manufacturing and medtech talent clusters.

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Low unemployment and demographic constraints suggest that securing top talent will remain challenging in 2024.

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The established R&D clusters of Washington, D.C.-Baltimore, New York-New Jersey and Raleigh-Durham also rank high, as do smaller hubs like Madison, WI, Trenton, NJ and Columbus, OH.

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Los Angeles-Orange County and Minneapolis-St. Paul dominate our medtech talent rankings. Smaller markets like Salt Lake City and Pittsburgh also demonstrate a significant depth of talent.

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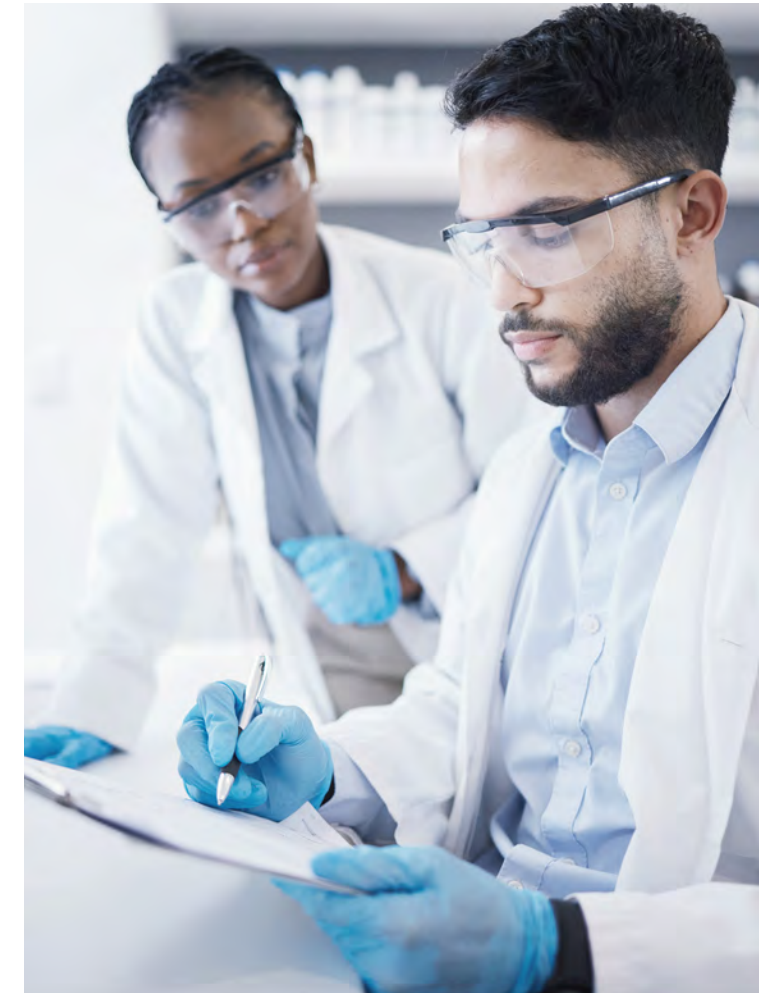
Boston-Cambridge, the San Francisco Bay Area and San Diego each earned top marks in R&D, manufacturing and medtech talent rankings.

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Life sciences manufacturing talent can be best accessed in larger clusters like New York-New Jersey, Houston and Philadelphia. Smaller hubs like Albany, NY, Worcester, MA and Greenville, SC also offer advantages.

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Our latest research into emerging, underexplored talent clusters reveals several smaller university-anchored clusters that support much larger life sciences ecosystems beyond traditional metro area boundaries.



02

# U.S. Life Sciences Talent Trends

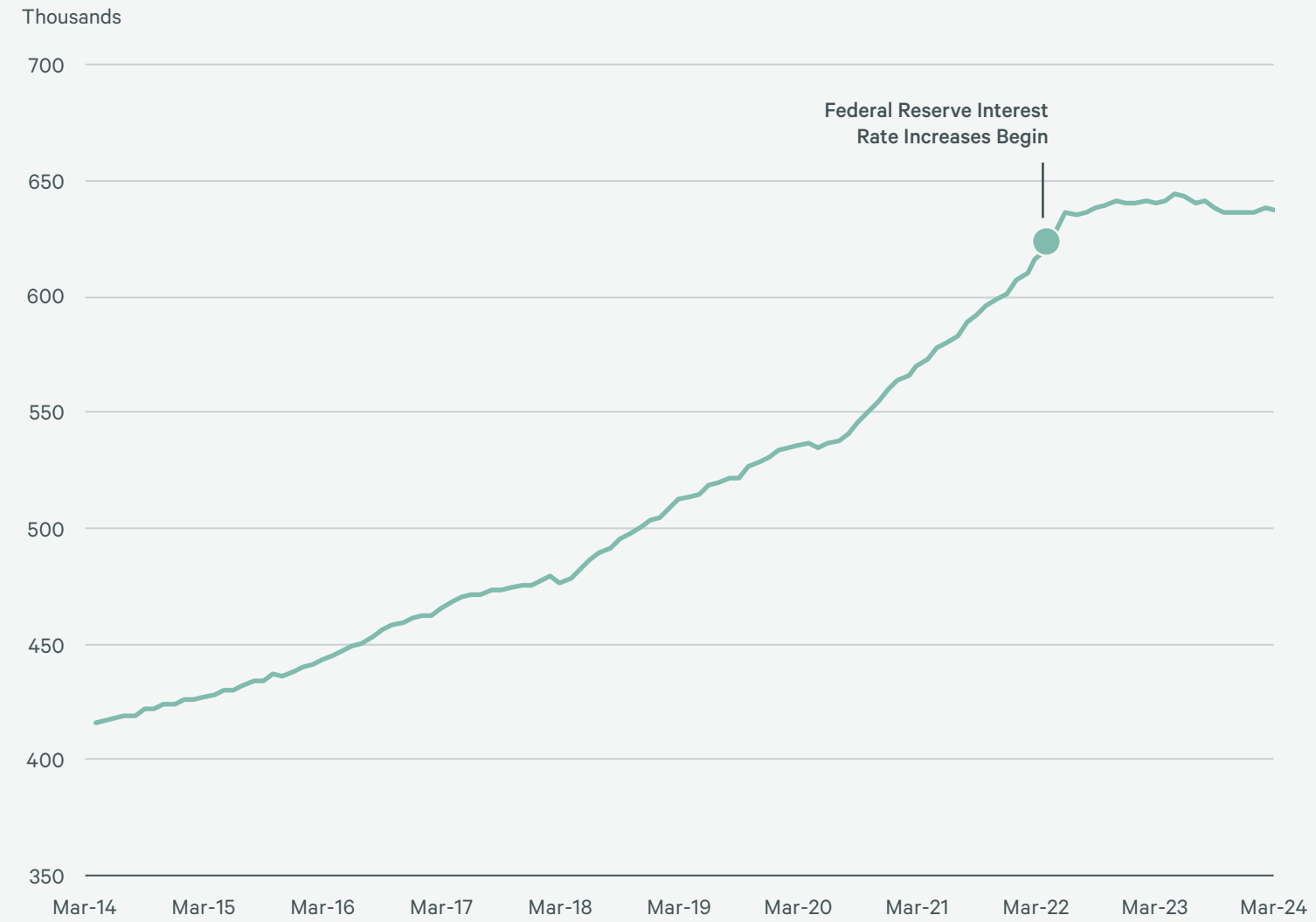


Despite a notable hiring slowdown in the U.S. life sciences industry over the past two years, historically low unemployment is contributing to the labor market’s stability. This suggests that the challenge of acquiring top talent in life sciences subsectors like R&D, manufacturing or medtech may not significantly lessen in 2024.

Figure 1 shows slowing U.S. life sciences industry employment, represented by jobs in the biotechnology R&D and pharmaceutical/medicine manufacturing industries. This slump began three months after the Federal Reserve initiated interest rate hikes in March 2022 and has persisted for nearly two years. The biotechnology industry, specifically, is interest rate-sensitive due to challenges in financing projects with lengthy timelines and significant hurdles to success.

Employment in the biotechnology R&D and pharmaceutical/medicine manufacturing industries has grown only 0.2% in the 21 months following June 2022. This contrasts with a 15.8% jump in the preceding 21 months (September 2020 and June 2022). The forecast for the next year anticipates continued sluggishness, possibly even declines, in life sciences labor markets.

**Figure 1:** U.S. Employment in the Biotechnology R&D and Pharmaceutical/Medicine Manufacturing Industries



Sources: U.S. Bureau of Labor Statistics, CBRE Research, Q2 2024.

0.2%

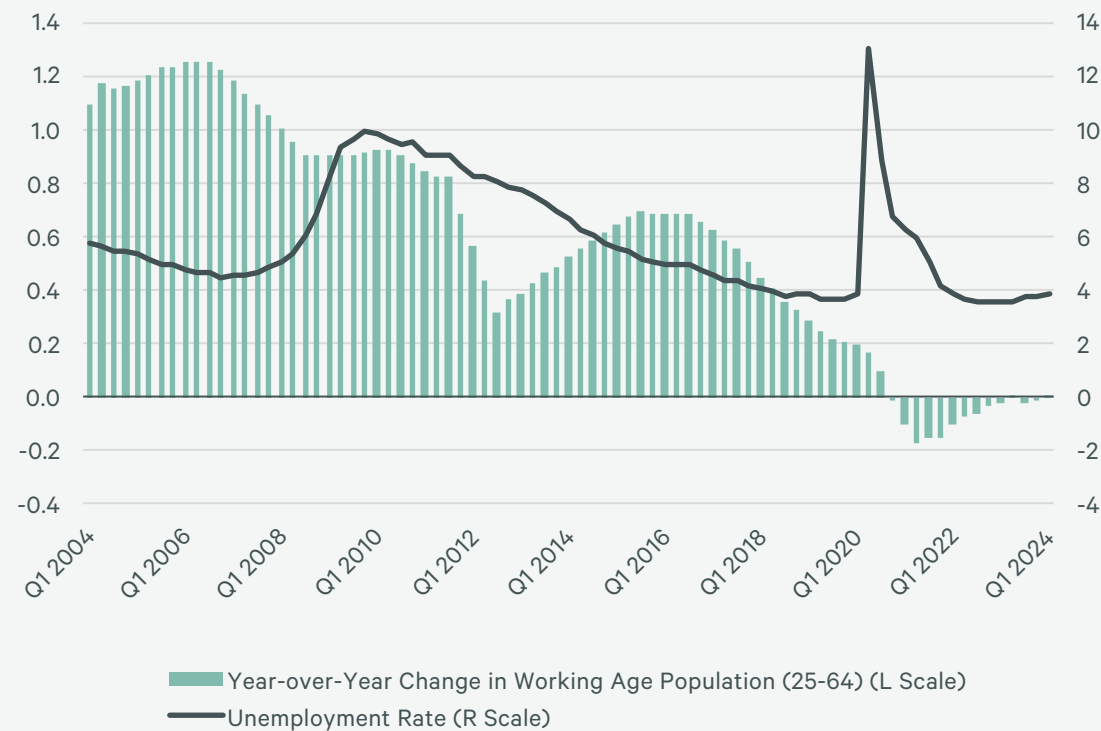
Employment growth in the biotechnology R&D and pharmaceutical/medicine manufacturing industries since June 2022

Unlike many past economic cycles where the working-age population grew, it has stalled in the U.S., limiting labor supply and helping keep unemployment near historic lows (Figure 2). Therefore, the impact on unemployment may be minimal, even with anticipated sluggish or weakening labor markets in 2024. This could maintain the ongoing scarcity of labor in the life sciences industry.

With historically low unemployment in the broader U.S. economy, unemployment in life, physical and social sciences occupations is particularly low (Figure 3). These occupations, coupled with low unemployment in engineering, computer and math occupations, most impact life sciences R&D talent dynamics.

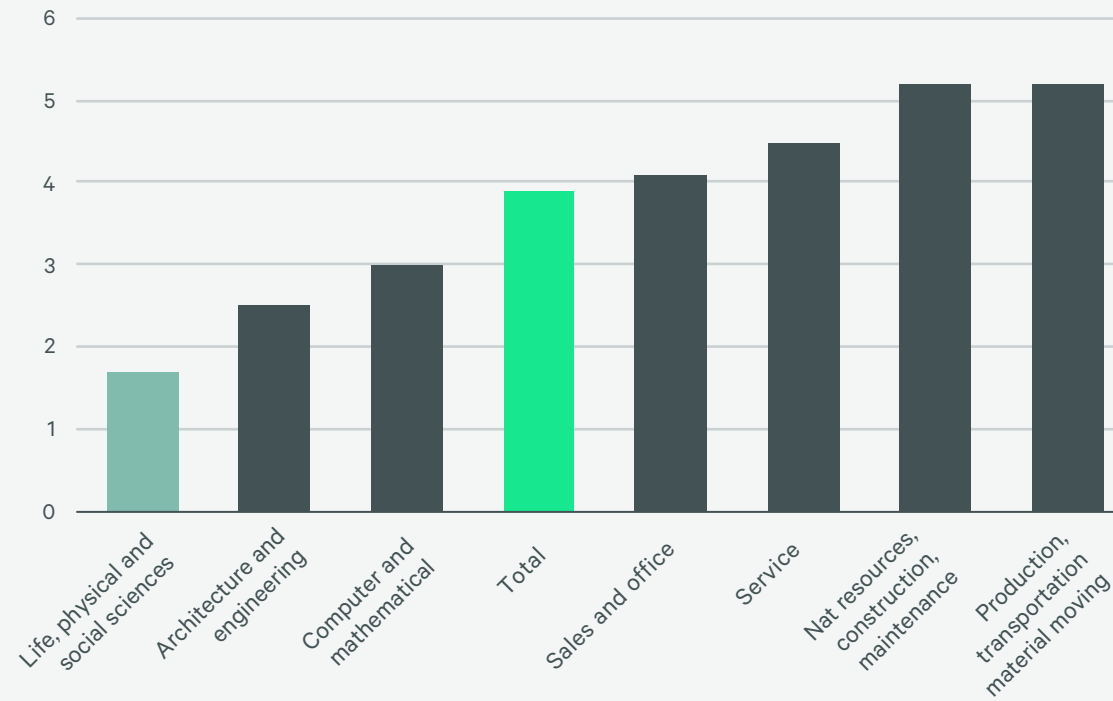
**With historically low unemployment in the U.S. and stalling working-age population growth, unemployment in life, physical and social sciences occupations is particularly low.**

**Figure 2: U.S. Unemployment and Working-Age Population Growth (%)**



Sources: U.S. Bureau of Labor Statistics, CBRE Research, Q2 2024.

**Figure 3: Unemployment Rates by Occupational Group (%)**



Note: "Total" includes people unemployed who are 16 years or older. Sources: U.S. Bureau of Labor Statistics, CBRE Research, Q2 2024.

As mid-2024 approaches, the U.S. labor market continues to exceed expectations. Figure 4 illustrates this trend in the pharmaceutical industry, where active job postings have shown strong resilience this year, indicating that the demand for talent remains high.

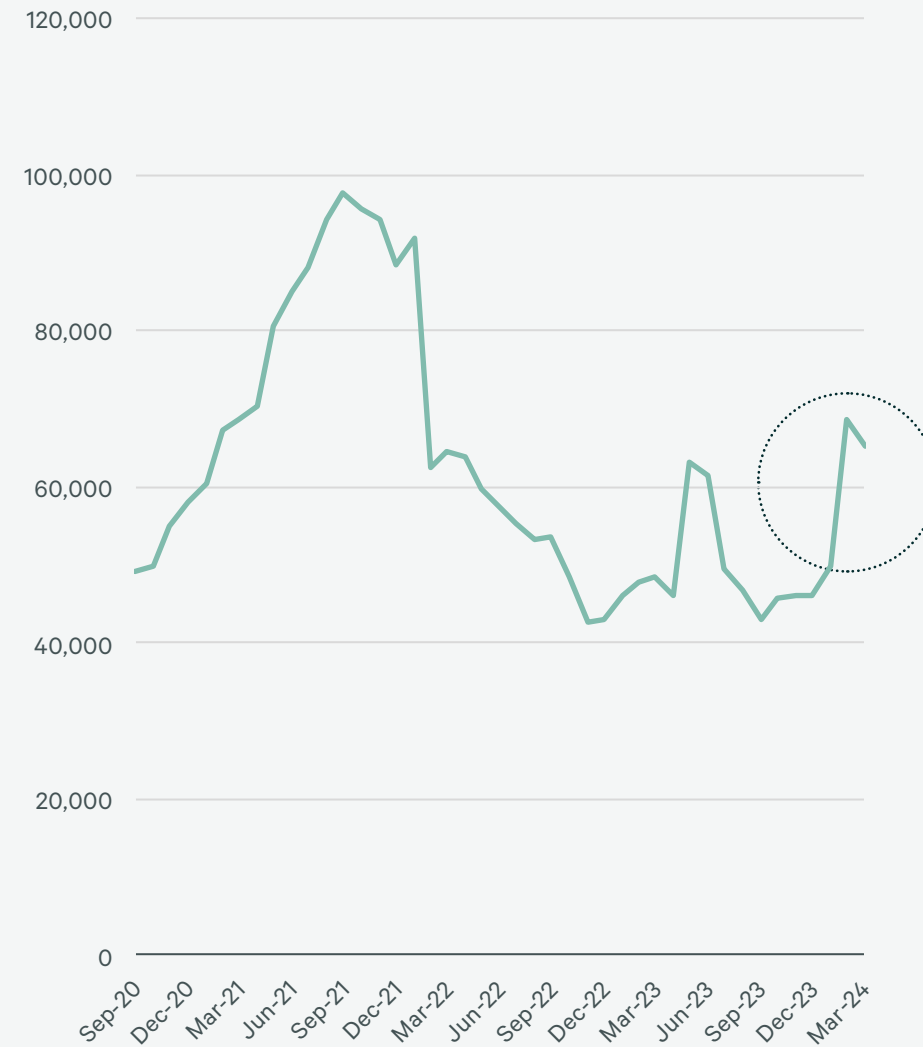
Despite low unemployment, demographic constraints and a resilient job market, the growth in new graduates with scientific and technical experience continues at a strong pace. This supports long-term industry expansion and mitigates some labor market constraints.

Figure 5 shows the growth in U.S. biological and biomedical sciences degrees and certifications issued compared to all degrees and certifications, both indexed to 1.0 in the 2010 to 2011 academic year. The number of these degrees rose from 113,137 in the 2010 to 2011 academic year to 173,825 in 2021 to 2022, marking a 54% increase.

54%

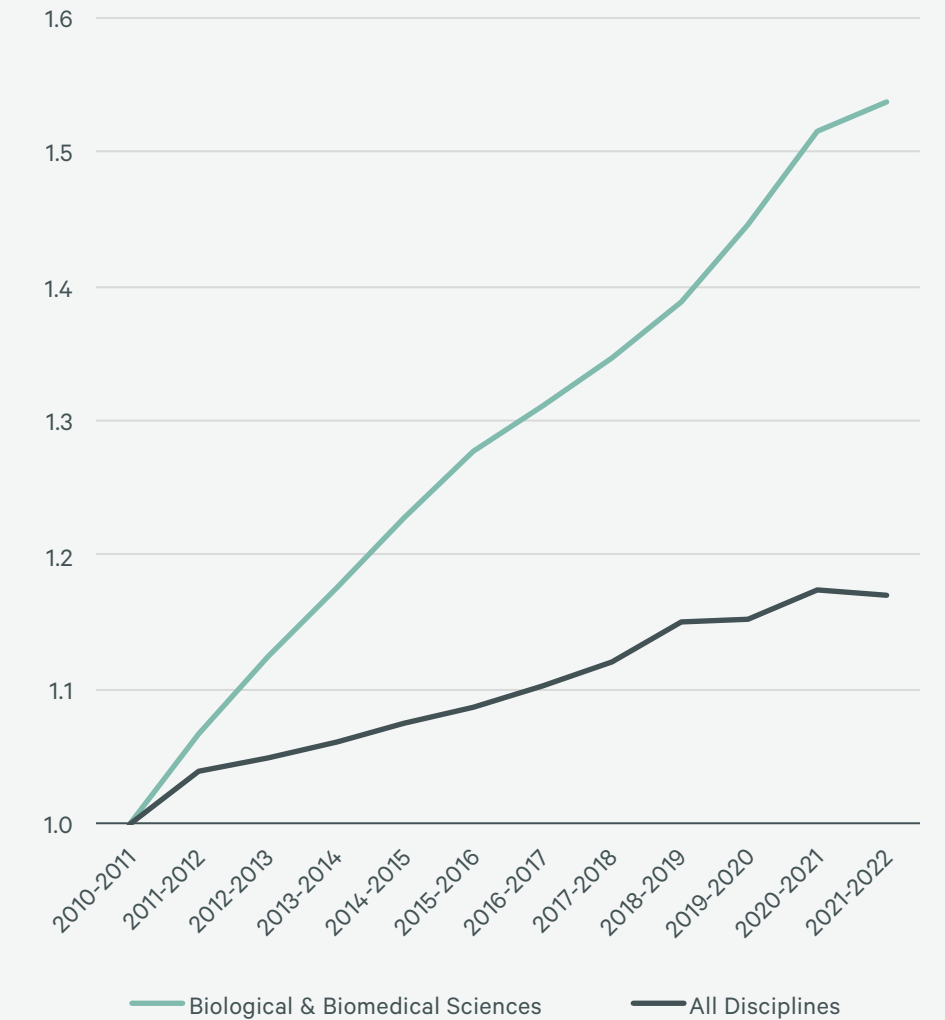
Growth in U.S. biological and biomedical sciences degrees and certifications from 2011 to 2022

**Figure 4:** U.S. Biopharmaceutical Industry "Active" Job Postings



Source: GlobalData, Q2 2024.

**Figure 5:** Indexed Growth of Degrees and Certificates Issued in Biological and Biomedical Sciences vs. All Others (Number of Degrees/Certificates Issued in 2010-2011 = 1.0)

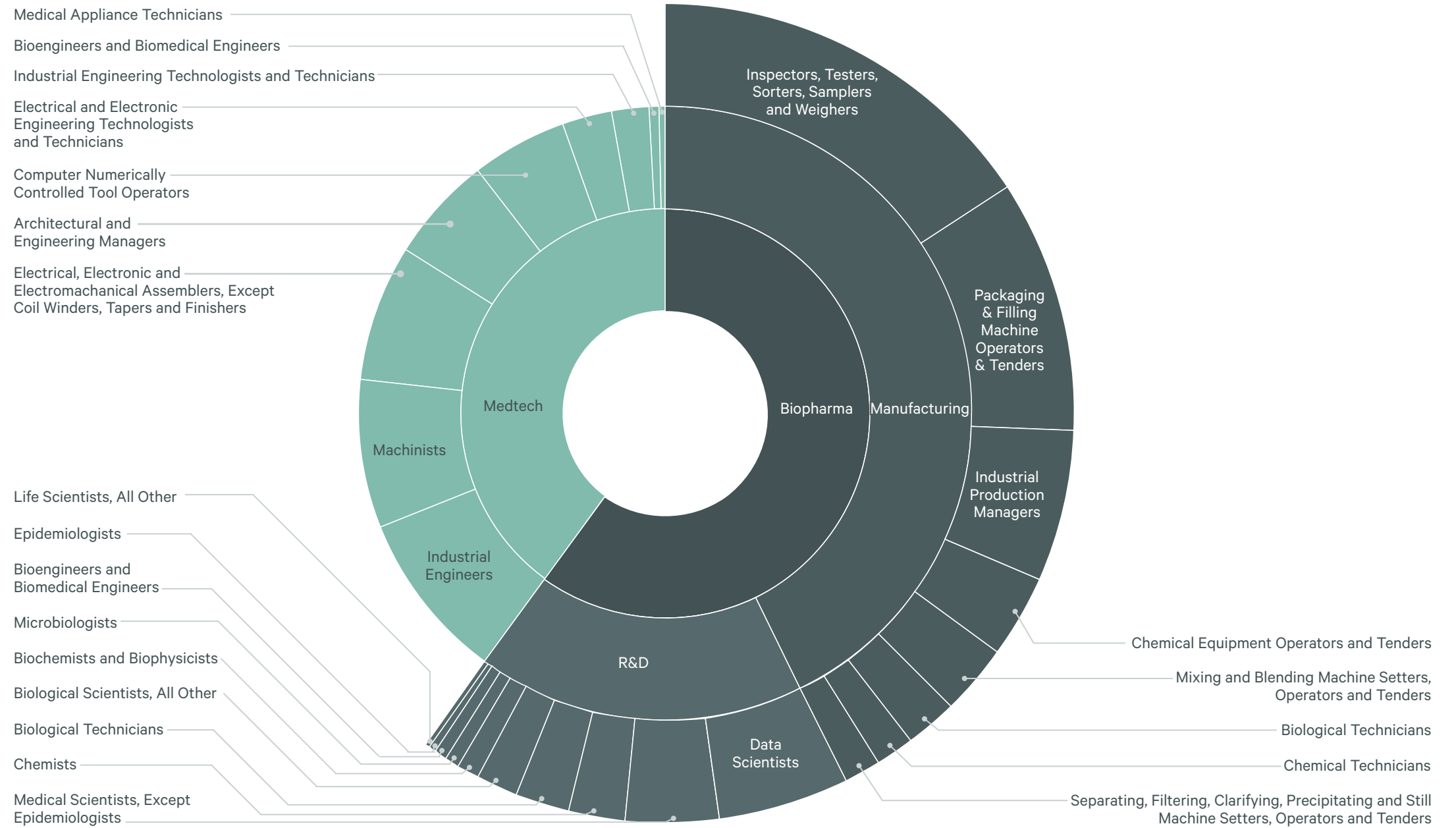


Sources: U.S. Department of Education, National Center for Education Statistics, IPEDS, CBRE Research, Q2 2024.



Our 2024 report examines new biological and biomedical sciences graduates at the market level, highlighting the advantage of a local supply of emerging life sciences talent. It also explores the U.S. life sciences workforce in three key areas: R&D, manufacturing and medtech. Markets and metropolitan areas are evaluated by the number and density of occupations in these industry subsets. Figure 6 shows the distribution of these occupations by industry segment.

**Figure 6:** Life Sciences Occupations in R&D, Manufacturing and Medtech



Note: The share of life sciences industry professionals within certain occupations varies.

Despite low unemployment, demographic constraints and a resilient job market, the growth in new graduates with scientific and technical experience continues at a strong pace.



03

# Geography of U.S. Life Sciences Talent

Figure 7 showcases results from our broad review of U.S. life sciences talent. The markets shown ranked within the top 25 in life sciences R&D, manufacturing or medtech talent. Colors correspond to the industry subset where the market ranked highest.

**Figure 7:** Top-Ranked Life Sciences Clusters



Source: CBRE Research, Q2 2024

04

# Life Sciences R&D Talent

Our expanded 2024 analysis of the top 100 life sciences R&D talent markets shows nuanced shifts and intriguing new entries. Boston-Cambridge was our top market for R&D talent again, widening its lead by boasting the highest number of bioengineers and biomedical engineers, biochemists, biophysicists, microbiologists, medical scientists and biological technicians in the U.S. This attests to Boston-Cambridge’s remarkable talent depth.

The second tier of top-ranked R&D talent markets include the San Francisco Bay Area, Washington, D.C.-Baltimore and New York-New Jersey. The Bay Area boasts a denser existing R&D talent pool, while the latter markets have more emerging talent, particularly new graduates in biological and biomedical sciences. Los Angeles-Orange County outpaced Raleigh-Durham and San Diego primarily due to its sheer volume of existing talent and new graduates.

This year, Madison, WI and Trenton, NJ, both new to the top 25, owe their rankings to our expanded coverage to the 100 largest markets (up from 75 last year). Both markets have highly educated workforces supported by prestigious universities, with Princeton University near Trenton and the University of Wisconsin in Madison. Furthermore, they have some of the highest densities of life sciences R&D occupations in the U.S. For instance, Madison has the top concentration of microbiologists, chemists and biological technicians of the top 100 markets, while Trenton boasts the highest concentration of epidemiologists and one of the highest for chemists, biochemists and biophysicists.

Phoenix and Columbus, OH also ascended to the top 25 in 2024. They were propelled by appealing workforce attributes and the emerging talent from Arizona State University and Ohio State University.

Markets on the verge of the top 25 include Nashville, Worcester, MA, Tampa, St. Louis, Albany, NY, Richmond, Tucson, Indianapolis, and New Haven, CT. These markets exhibit various strengths, ranging from an attractive industry workforce to emerging talent from respected local universities.

Figure 8: Top 25 Ranked Markets for Life Sciences R&D Talent

Market	CBRE Research Score	Market	CBRE Research Score
Boston-Cambridge	143.8	Madison, WI	105.2
San Francisco Bay Area	128.1	Atlanta	104.3
Washington, D.C.-Baltimore	127.6	Dallas-Fort Worth	103.8
New York-New Jersey	124.0	Salt Lake City	103.3
Los Angeles-Orange County	117.3	Trenton, NJ	102.3
Raleigh-Durham	116.4	Austin	102.1
San Diego	113.6	Sacramento	101.7
Philadelphia	112.2	Miami-Fort Lauderdale	101.6
Seattle	108.7	Pittsburgh	101.3
Chicago	106.3	Phoenix	101.1
Denver-Boulder	105.9	Portland, OR	101.1
Minneapolis-St. Paul	105.8	Columbus, OH	100.9
Houston	105.3		

Source: CBRE Research, Q2 2024

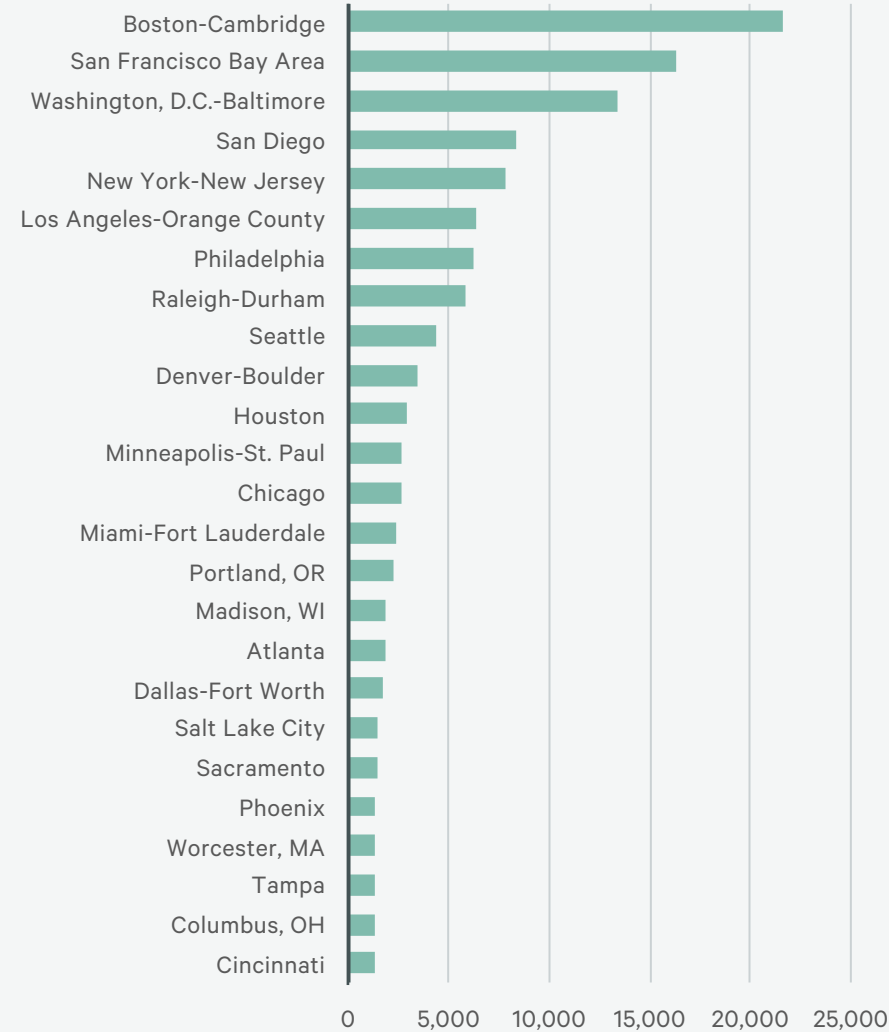


A market’s ranking as a top life sciences R&D cluster heavily relies on the number of “core” life sciences R&D occupations it hosts, namely biochemists, biophysicists, bioengineers, biomedical engineers, biological scientists and biological technicians. These occupations can have a more central role in life sciences R&D compared to other occupations, like epidemiologists, which, while crucial to the ecosystem, frequently do not lead in life sciences R&D.

Figure 9 shows the U.S. markets with the most “core” R&D roles. The top tier, with significant “core” life sciences R&D talent, includes Boston-Cambridge, the San Francisco Bay Area and Washington, D.C.-Baltimore. Over a third of these “core” U.S. life sciences researchers reside in these three leading markets. The importance of San Diego and Raleigh-Durham in the life sciences industry is underscored by their capacity to host a similar amount of “core” life sciences researchers as much larger markets like New York-New Jersey, Los Angeles-Orange County and Philadelphia.

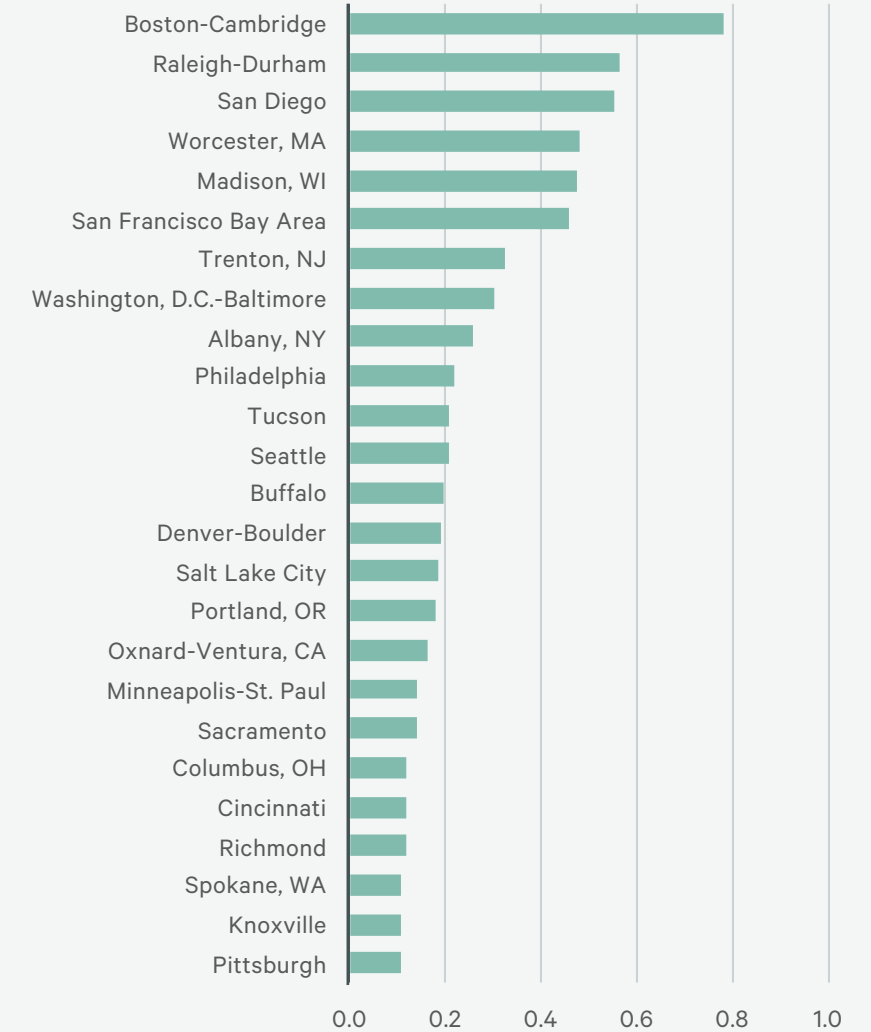
Figure 10 depicts the density of “core” life sciences R&D roles, calculated as the proportion of these researchers among all occupations in the market. The data reveals clusters with notably high concentration of this coveted talent, such as Raleigh-Durham, Worcester, MA, Madison, WI, Trenton, NJ, Albany, NY and Tucson. While smaller markets like these might be overlooked due to fewer absolute talent numbers, these densities show attractive industry R&D activity within these smaller clusters.

**Figure 9:** Number of Core Life Sciences R&D Occupations by Market



Source: U.S. Bureau of Labor Statistics, CBRE Research, Q2 2024.

**Figure 10:** Density of Core Life Sciences R&D Occupations by Market (Core Occupations as % of Total)



Source: U.S. Bureau of Labor Statistics, CBRE Research, Q2 2024.

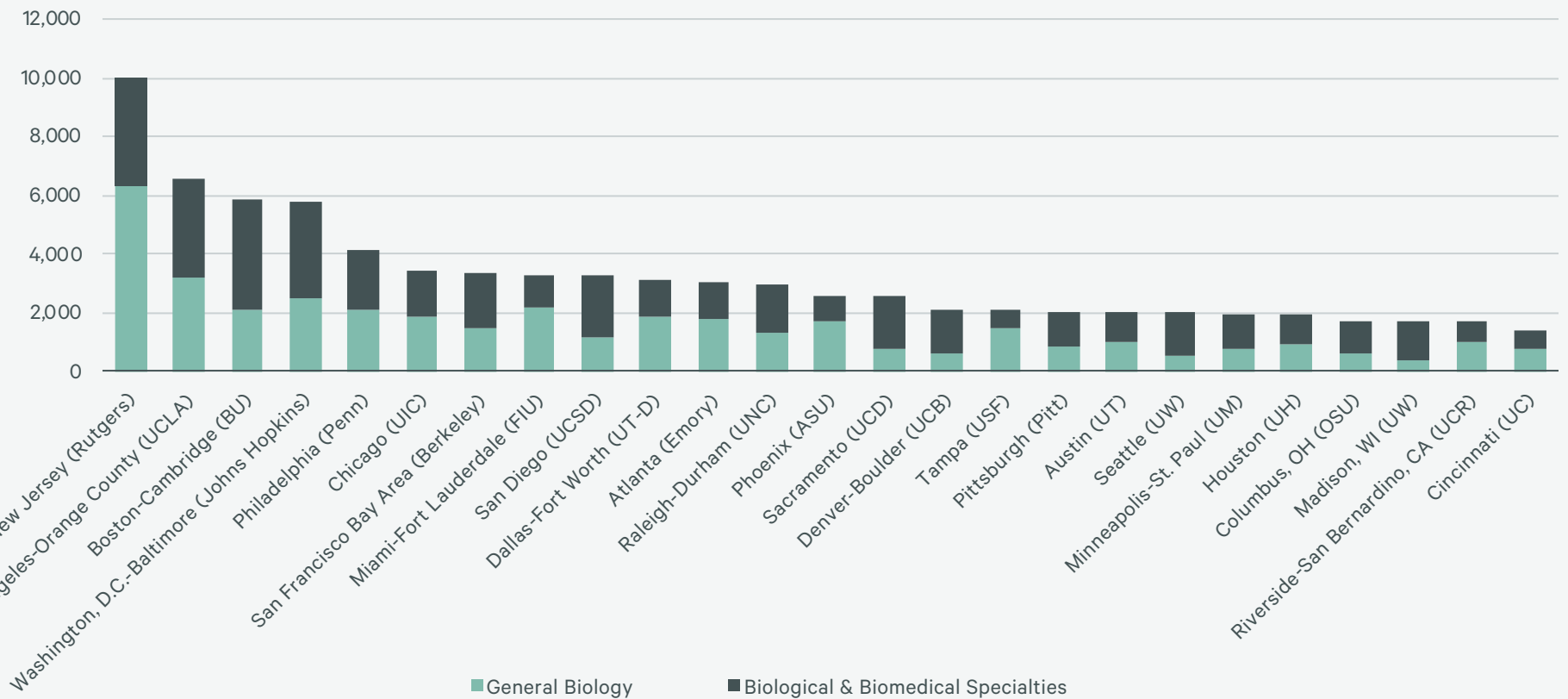
The number of new graduates in biological and biomedical sciences also contributes to a market's ranking as a top life sciences R&D hub. Figure 11 highlights the markets with the most graduates in these fields, distinguishing between general biology degrees and more specialized biological and biomedical sciences degrees like biotechnology, genetics or computational biology. The top graduate-producing university in each market is shown.

Four markets strongly led in the amount of graduates, starting with the nation's most populous, New York-New Jersey, followed by Los Angeles-Orange County, Boston-Cambridge and Washington, D.C.-Baltimore. They held a significant lead over other markets in producing biological and biomedical sciences graduates.

However, Figure 11 also shows that New York-New Jersey has a lower percentage of graduates with specialty degrees in biological and biomedical sciences than Los Angeles-Orange County, Boston-Cambridge and Washington, D.C.-Baltimore. Miami-Fort Lauderdale and Tampa also have a low share of specialty-degree graduates. In contrast, markets like Boston-Cambridge, San Diego, Denver-Boulder and Seattle offer more specialty degrees in their academic programs.

### Four markets led in the amount of graduates, starting with the nation's most populous, New York-New Jersey, followed by Los Angeles-Orange County, Boston-Cambridge and Washington, D.C.-Baltimore.

**Figure 11:** Number of Degrees & Certificates Awarded in 2022 Academic Year by Metro and Universities with Most Life Sciences Graduates



Sources: U.S. Department of Education, National Center for Education Statistics, IPEDS, CBRE Research, Q2 2024.

Although there is no evidence that specialty degrees are more valuable than a conventional biology degree, the data reveals interesting links between a higher number of specialty degrees and a thriving local life sciences industry. For example, Figure 12 shows an 86% correlation between a market's issuance of these degrees and the total size of its life sciences R&D industry. A similarly high correlation exists between these specialty degrees and local funding from the National Institutes of Health.

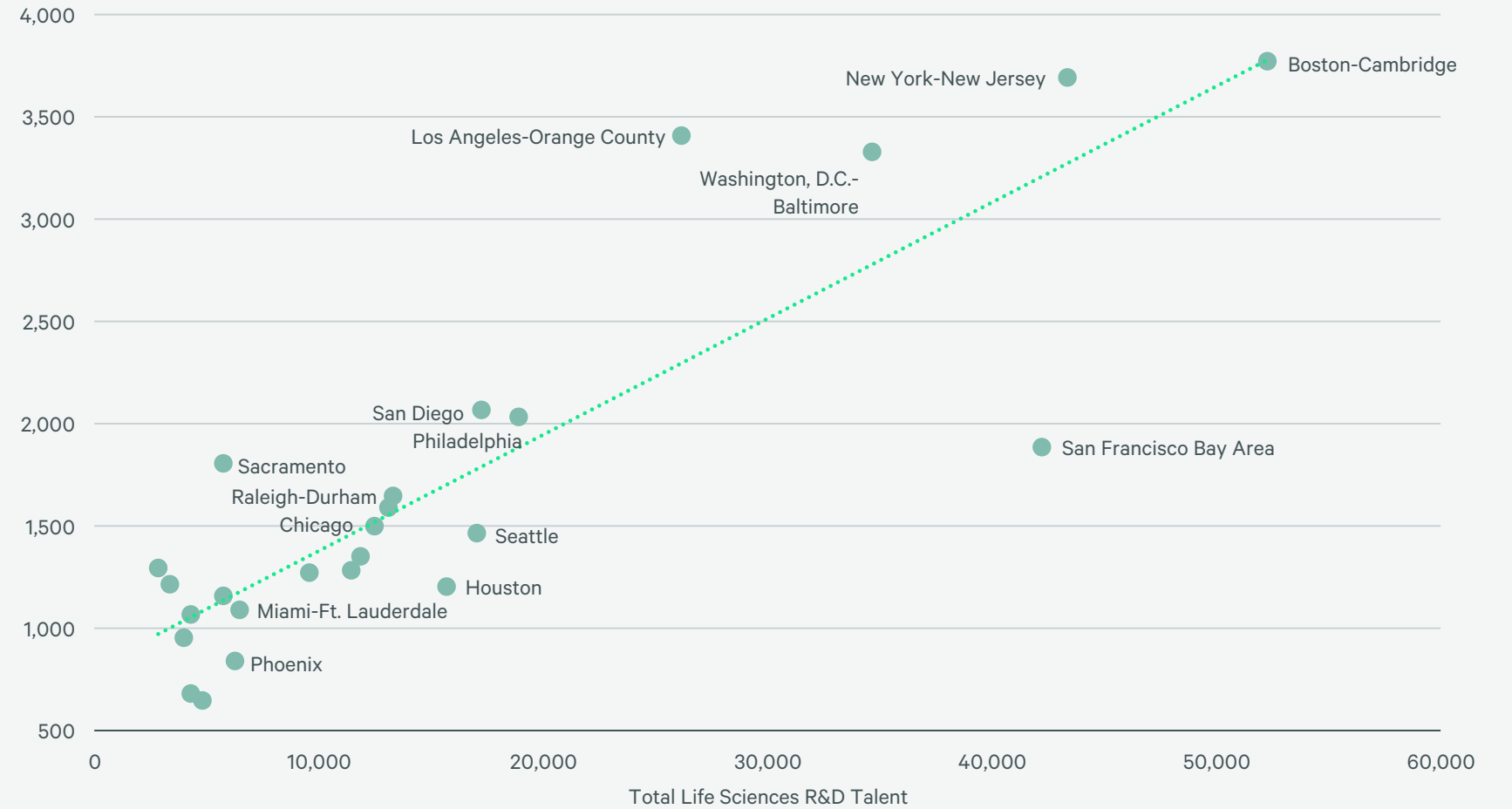
86%

Correlation between a market's issuance of specialty degrees and the total size of its life sciences R&D industry



**Figure 12:** "Specialty" Degrees in Biological & Biomedical Sciences Granted Vs. Total Life Sciences R&D Talent

Total Degrees/Certificates Awarded in Specialties of Biomedical & Biological Sciences



Source: IPEDs, U.S. Bureau of Labor Statistics, CBRE Research, Q2 2024.

Figure 13 highlights the markets that produce the most degrees in many of these specialty programs, which underpin advancements in these areas of life sciences.

**Figure 13:** Top Markets with Programs Issuing Degrees in "Specialties" of Biological & Biomedical Sciences

Biochemistry, Biophysics & Molecular Biology				Biomathematics, Bioinformatics, and Computational Biology				Biomedical/Medical Engineering				Biological/Biosystems Engineering			
Bachelor's and Higher		PhD		Bachelor's and Higher		PhD		Bachelor's and Higher		PhD		Bachelor's and Higher		PhD	
Los Angeles-Orange County	774	Los Angeles-Orange County	89	New York-New Jersey	301	Raleigh-Durham	44	New York-New Jersey	724	Los Angeles-Orange County	89	Fayetteville	40	Phoenix	8
New York-New Jersey	584	New York-New Jersey	58	Boston-Cambridge	276	Los Angeles-Orange County	38	Los Angeles-Orange County	568	New York-New Jersey	58	Sacramento	31	Sacramento	5
Washington, D.C.-Baltimore	525	San Francisco Bay Area	71	Los Angeles-Orange County	199	Washington, D.C.-Baltimore	29	Boston-Cambridge	552	San Francisco Bay Area	71	Tucson	25	Tucson	2
Boston-Cambridge	514	Washington, D.C.-Baltimore	66	Raleigh-Durham	148	Boston-Cambridge	26	Washington, D.C.-Baltimore	514	Washington, D.C.-Baltimore	66	Detroit	20	Denver-Boulder	1
Austin	393	Madison, WI	38	Washington, D.C.-Baltimore	147	Pittsburgh	26	Philadelphia	502	Madison, WI	38	San Diego	20		
						Houston	26								
Cell/Cellular Biology and Anatomical Sciences				Biology, General				Biotechnology				Genetics			
Bachelor's and Higher		PhD		Bachelor's and Higher		PhD		Bachelor's and Higher		Master's and Higher		Bachelor's and Higher		PhD	
San Francisco Bay Area	817	Philadelphia	67	New York-New Jersey	6,348	New York-New Jersey	167	Washington, D.C.-Baltimore	647	Washington, D.C.-Baltimore	637	Madison, WI	145	Raleigh-Durham	42
San Diego	769	New York-New Jersey	58	Los Angeles-Orange County	3,184	Boston-Cambridge	156	Boston-Cambridge	298	Boston-Cambridge	238	Sacramento	120	Houston	21
New York-New Jersey	346	Chicago	49	Washington, D.C.-Baltimore	2,478	San Diego	99	New York-New Jersey	151	Chicago	105	New York-New Jersey	99	Dallas-Fort Worth	17
Los Angeles-Orange County	307	San Francisco Bay Area	45	Miami-Fort Lauderdale	2,211	Atlanta	85	Houston	119	New York-New Jersey	72	Raleigh-Durham	83	San Francisco Bay Area	16
Seattle	255	Boston-Cambridge	41	Philadelphia	2,126	Philadelphia	62	Chicago	105	Philadelphia	49	Columbus, OH	69	New York-New Jersey	15

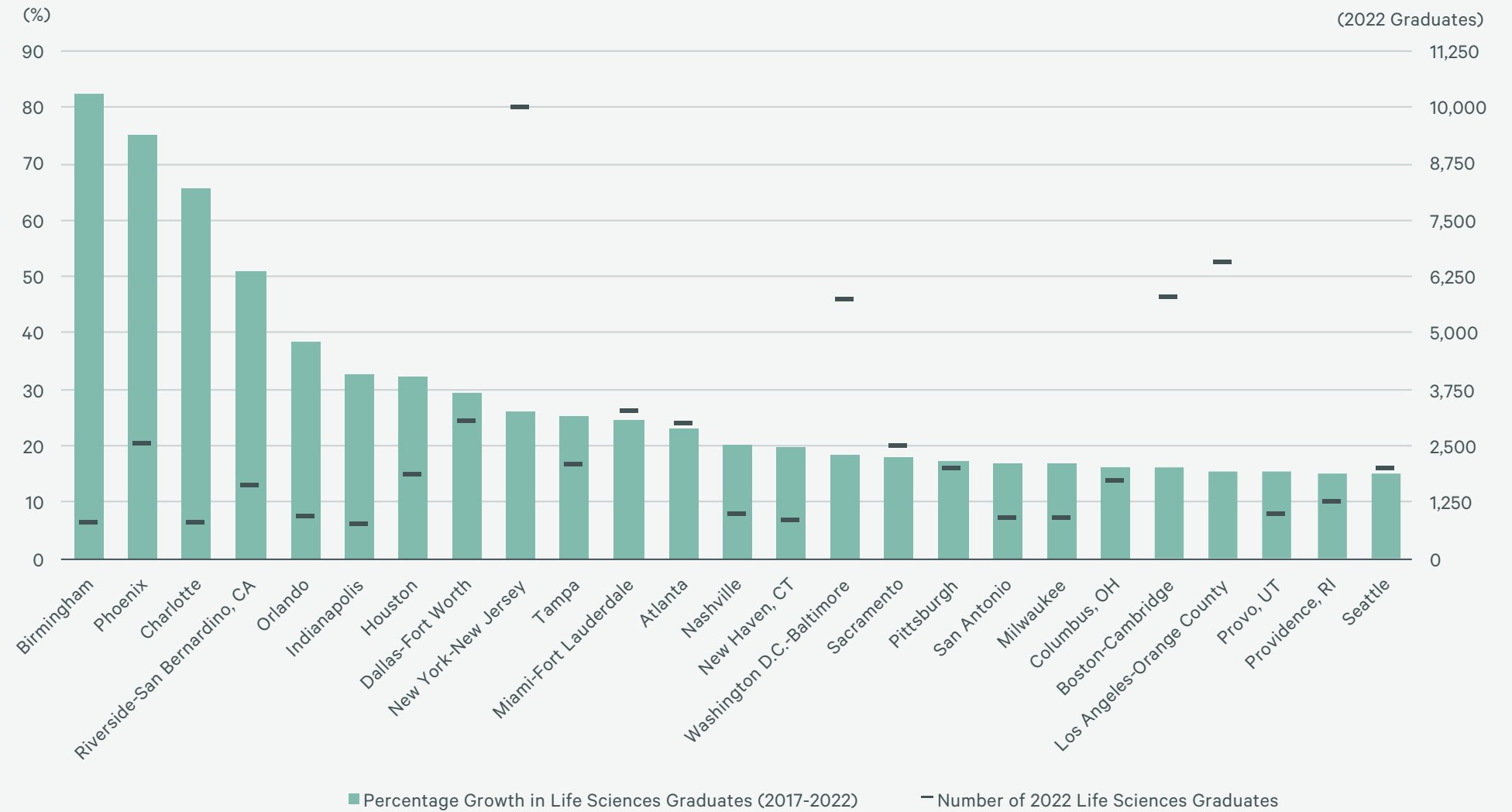
Sources: IPEDs, CBRE Research, Q2 2024. Note: Only top 100 largest markets included.

Figure 14 depicts markets with the fastest-growing programs in producing new graduates in biological and biomedical sciences. Birmingham has seen the quickest growth in new biological and biomedical sciences graduates over the past five years, mainly through the University of Alabama at Birmingham, but still grants a relatively small number of degrees. Phoenix is another rapidly growing market, as noted in previous reports.

The highest graduate-producing markets (New York-New Jersey, Los Angeles-Orange County, Boston-Cambridge, Washington, D.C.-Baltimore) are still expanding their graduate output at a strong rate, surpassing the U.S. rate of 15.2%. In fact, all markets in the chart below exceed the U.S. growth rate, except Providence, RI and Seattle.

**The highest graduate-producing markets are still sharply growing, surpassing the U.S. rate of 15.2%.**

**Figure 14:** Top 25 Fastest-Growing Markets for Life Sciences Degrees (2017-2022)



Sources: IPEDs, CBRE Research, Q2 2024. Note: Bachelor's degrees and above.

Figure 15 compares the rate at which markets produce graduates to the size of their local life sciences R&D industry. The data indicates the number of 2022 graduates for every person working in the local life sciences industry, suggesting which markets may be undersupplied or oversupplied with new valuable labor.

Among the top 25 life sciences R&D markets, Pittsburgh is producing the most biological and biomedical sciences graduates relative to its industry size (0.6 new graduates per local life sciences R&D employee). In contrast, the San Francisco Bay Area has the lowest graduate-to-industry size ratio.

Despite valuable insights from this analysis, geographic limitations exist. For example, although the San Francisco Bay Area is possibly undersupplied with new graduates, it benefits from its proximity to Sacramento, which produces a larger number of new graduates who can easily relocate to the Bay Area. Other markets have a similar dynamic, such as Boston-Cambridge. Additionally, markets producing more graduates than the local industry can potentially absorb may be worth investigating for surplus supply.

**Figure 15:** Graduates in Biological & Biomedical Sciences per Local R&D Employment: Top 25 Life Sciences R&D Markets (2022)



Source: IPEDs, U.S. Bureau of Labor Statistics, CBRE Research, Q2 2024.



Although there is no evidence that specialty degrees are more valuable than a conventional biology degree, the data reveals interesting links between a higher number of specialty degrees and a thriving local life sciences industry.



05

# Life Sciences *Manufacturing* Talent

Identifying the appropriate talent pool for a company’s manufacturing needs can be complex, with a variety of extremely specific needs and skills. For example, a large pharmaceutical company’s high-volume production facility might have different needs compared to a smaller cell and gene therapy organization.

Our top 25 life sciences manufacturing markets ranking aims to accommodate various users and needs, based on occupations most commonly supporting life sciences manufacturing operations. The ranking considers the depth and density of biological and chemical technicians, along with more generic manufacturing roles such as industrial production managers, inspectors and testers, and packaging operators.

The leading life sciences manufacturing markets range from historic leaders in pharmaceutical, medicine and chemical manufacturing, like New York-New Jersey, Chicago and Philadelphia, to markets with a greater biotechnology presence like Boston-Cambridge, the San Francisco Bay Area and San Diego. Markets offering abundance talent with transferable skills, like Houston, and large distribution markets like Dallas-Fort Worth, are also notable.

Several smaller markets, such as Greenville, SC, Buffalo and Detroit, might surprise industry observers, but data shows they offer an abundance of many occupations with skills needed for life sciences manufacturing.

**Figure 16:** Top 25 Ranked Markets for Life Sciences Manufacturing Talent

Market	CBRE Research Score	Market	CBRE Research Score
New York-New Jersey	114.6	Seattle	103.3
Boston-Cambridge	114.0	Raleigh-Durham	103.0
Chicago	112.1	Denver-Boulder	102.9
Houston	111.8	Grand Rapids, MI	102.8
San Francisco Bay Area	111.7	Portland, OR	102.8
Los Angeles-Orange County	111.6	Minneapolis-St. Paul	102.4
Philadelphia	107.7	Greenville, SC	102.4
San Diego	106.2	Cleveland	102.2
Washington, D.C.-Baltimore	105.2	Buffalo	101.7
Dallas-Fort Worth	104.8	Albany, NY	101.3
Madison, WI	104.7	Atlanta	101.2
Cincinnati	104.6	Worcester, MA	101.2
Detroit	103.7		

Source: CBRE Research, Q2 2024

An adequate amount and density of biological and chemical technicians are essential for an appealing life sciences manufacturing market. Figure 17A shows the markets with the most technicians, all of which are among the U.S.’s leading life sciences clusters. Figure 17B reveals the strongest concentrations of these technicians among the top 100 markets. As expected, leading life sciences markets like Boston-Cambridge, the San Francisco Bay Area, San Diego and Raleigh-Durham are featured, but so are unexpected markets like Madison, WI. Worcester, MA and Albany, NY likely benefit from being in the larger ecosystems of Boston-Cambridge and New York-New Jersey, but Reno and Buffalo may surprise observers.

While less central to life sciences manufacturing, other occupations such as industrial production managers, inspectors and packaging operators are still crucial for any manufacturing platform. Figure 17C shows these roles are abundant in some of the nation’s largest industrial and distribution markets.

**Figure 17A:** Number of Biological/Chemical Technicians

Market	
Boston-Cambridge	7,740
San Francisco Bay Area	6,560
New York-New Jersey	6,530
Washington, D.C.-Baltimore	5,060
Houston	5,030
Los Angeles-Orange County	4,130
Philadelphia	3,800
San Diego	3,620
Denver-Boulder	2,910
Seattle	2,510

**Figure 17B:** Number of Biological/Chemical Technicians as % of All Occupations

Market	
Madison, WI	0.34%
Boston-Cambridge	0.28%
Worcester, MA	0.26%
Albany, NY	0.25%
San Diego	0.24%
Raleigh-Durham	0.22%
Reno	0.20%
San Francisco Bay Area	0.18%
Buffalo	0.18%
Tucson	0.17%

**Figure 17C:** Employees in Other Manufacturing Occupations Traditionally Used in the Life Sciences Industry

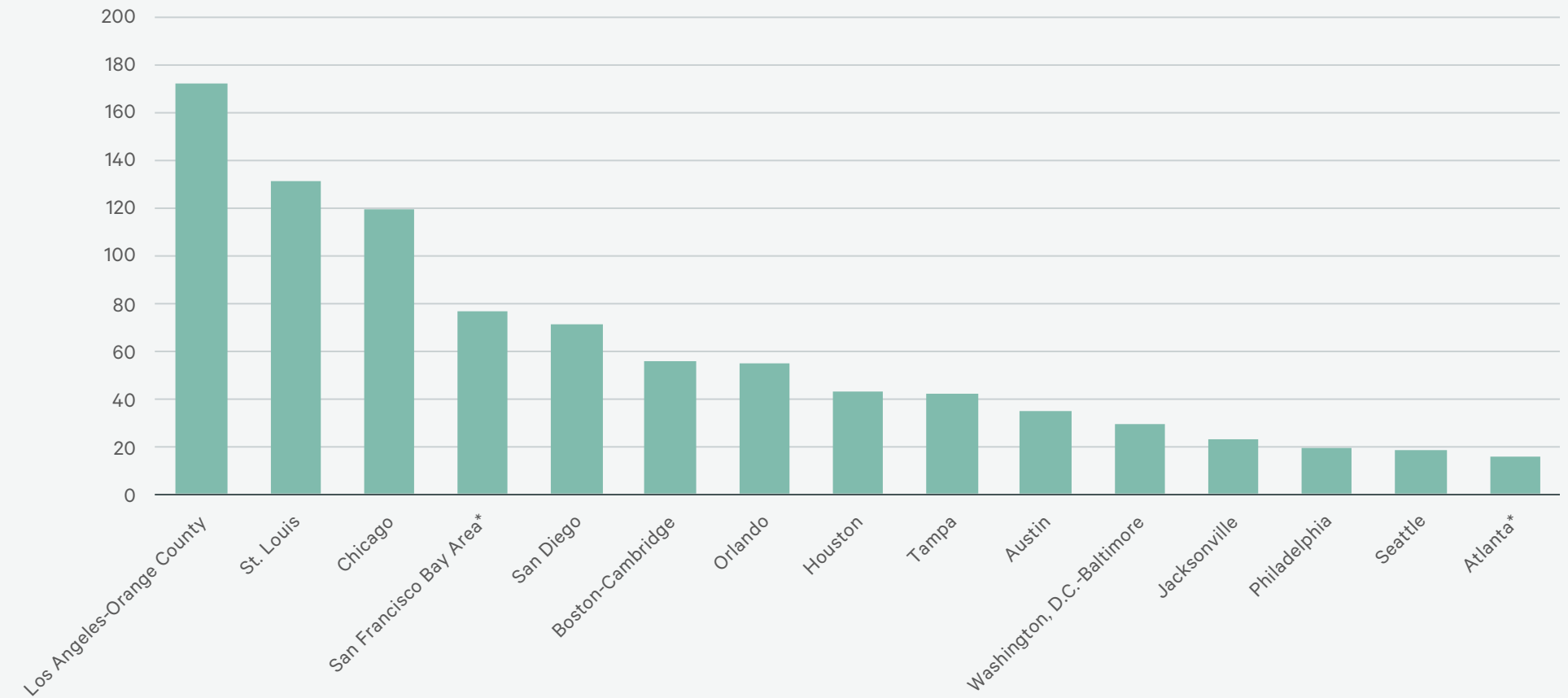
Market	
Chicago	57,870
New York-New Jersey	51,120
Los Angeles-Orange County	49,250
Dallas-Fort Worth	33,740
Houston	33,340
Detroit	26,090
Philadelphia	25,000
San Francisco Bay Area	24,680
Atlanta	21,660
Boston-Cambridge	20,210

Source: U.S. Bureau of Labor Statistics, CBRE Research, Q2 2024.

Emerging biotechnologies and gene therapies require increasingly skilled manufacturing employees to meet growing demand. A variety of public and private workforce development programs are addressing this need in many markets.

Figure 17, using data from the National Center for Education Statistics, reveals where the greatest number of certificates (up to 2-year programs) for biomedical/biotechnology/biology technicians were issued. This supports growing manufacturing operations in these markets, making them potentially attractive places for companies seeking manufacturing locations.

**Figure 18:** Biomedical/Biotechnology/Biology Technician Certificates Issued (2022)



Sources: U.S. Department of Education, National Center for Education Statistics, IPEDS, CBRE Research, Q2 2024.  
 \*San Francisco Bay Area includes Vallejo and Santa Cruz MSAs. Atlanta includes Athens MSA.



Emerging biotechnologies and gene therapies require increasingly skilled manufacturing employees to meet growing demand.





06

# Life Sciences *Medtech* Talent

The U.S. medtech talent pool is led by the similarly matched Los Angeles-Orange County and Minneapolis-St. Paul markets.

Boston-Cambridge and the San Francisco Bay Area are close behind, bolstered by their burgeoning biotechnology industries. Other traditional life sciences clusters such as New York-New Jersey, San Diego, Chicago and Philadelphia also offer attractive pools. Salt Lake City and Pittsburgh offer generous talent pools for their smaller market sizes. Milwaukee, Tampa, New Haven, CT and Providence, RI made our top 25 for medtech talent, but not for R&D or manufacturing.

Figure 19: Top 25 Ranked Markets for Medtech Talent

Market	CBRE Research Score	Market	CBRE Research Score
Los Angeles-Orange County	149.4	Houston	102.1
Minneapolis-St. Paul	148.7	Milwaukee	102.0
Boston-Cambridge	139.5	Seattle	101.9
San Francisco Bay Area	127.4	Madison, WI	101.6
New York-New Jersey	117.1	Denver-Boulder	101.6
San Diego	113.5	Cleveland	101.3
Chicago	112.3	Detroit	101.2
Salt Lake City	110.1	Tampa	100.8
Philadelphia	105.1	New Haven, CT	100.8
Raleigh-Durham	104.6	Providence, RI	100.8
Washington, D.C.-Baltimore	103.9	Worcester, MA	100.7
Pittsburgh	103.9	Phoenix	100.0
Dallas-Fort Worth	103.8		

Source: CBRE Research, Q2 2024

Figure 20 illustrates that 37% of the top 100 medtech talent is in Los Angeles-Orange County and Minneapolis-St. Paul. Together with Boston-Cambridge and the San Francisco Bay Area, these four markets house 58% of the talent in the top 100 markets.

Our rankings also consider talent density, not shown in Figure 20. Minneapolis-St. Paul leads in this aspect, having 1.14% of all occupations in medtech talent, double the next major market, Boston-Cambridge (0.55%).

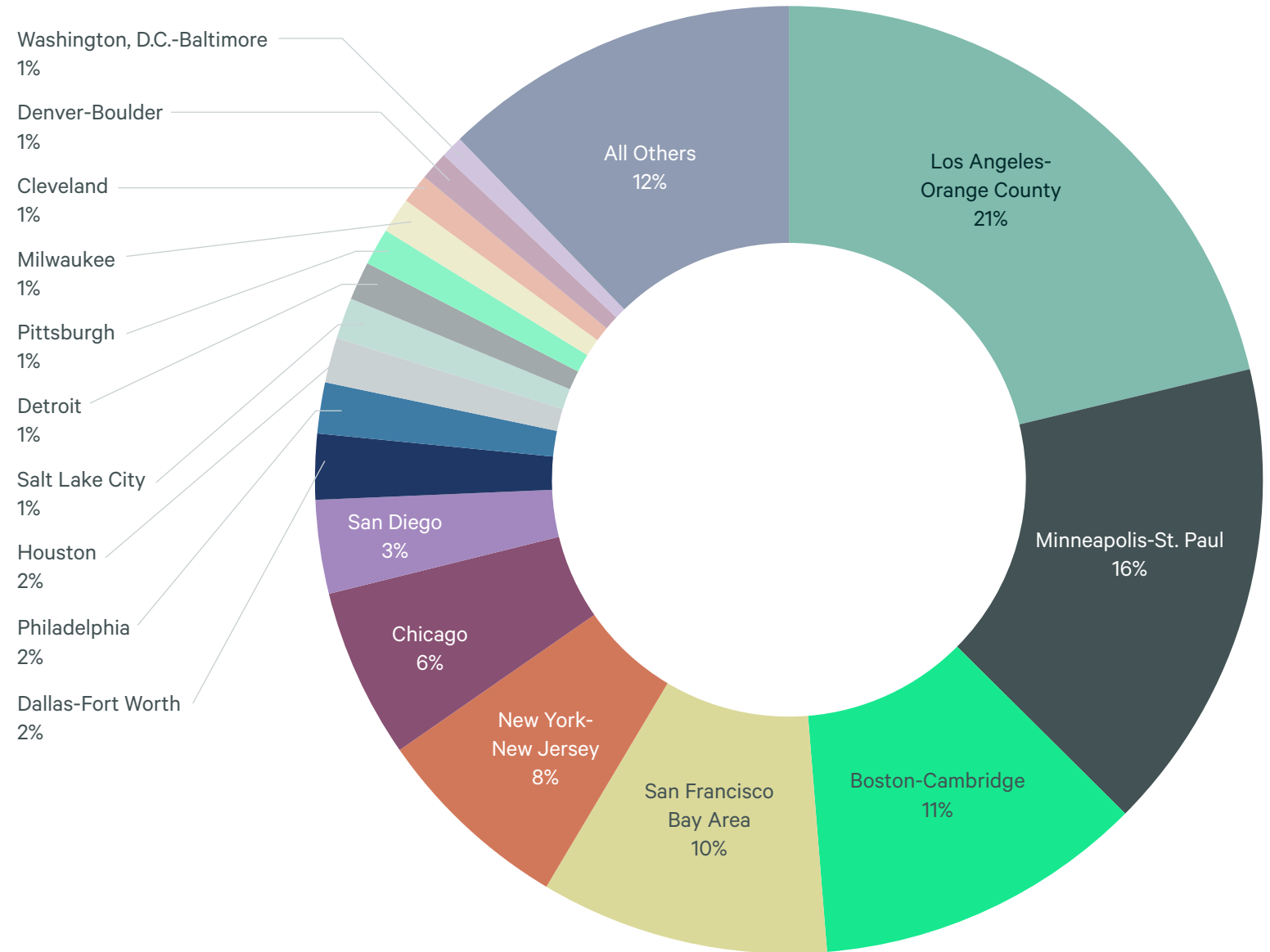
37%

of the top 100 medtech talent is in Los Angeles-Orange County and Minneapolis-St. Paul

1.14%

of occupations are in medtech in Minneapolis-St. Paul, double the next major market

Figure 20: Composition of U.S. Medtech Talent (Top 100 U.S. Markets)



Source: U.S. Bureau of Labor Statistics, CBRE Research, Q2 2024.

07

# Emerging Talent and Regional Ecosystems



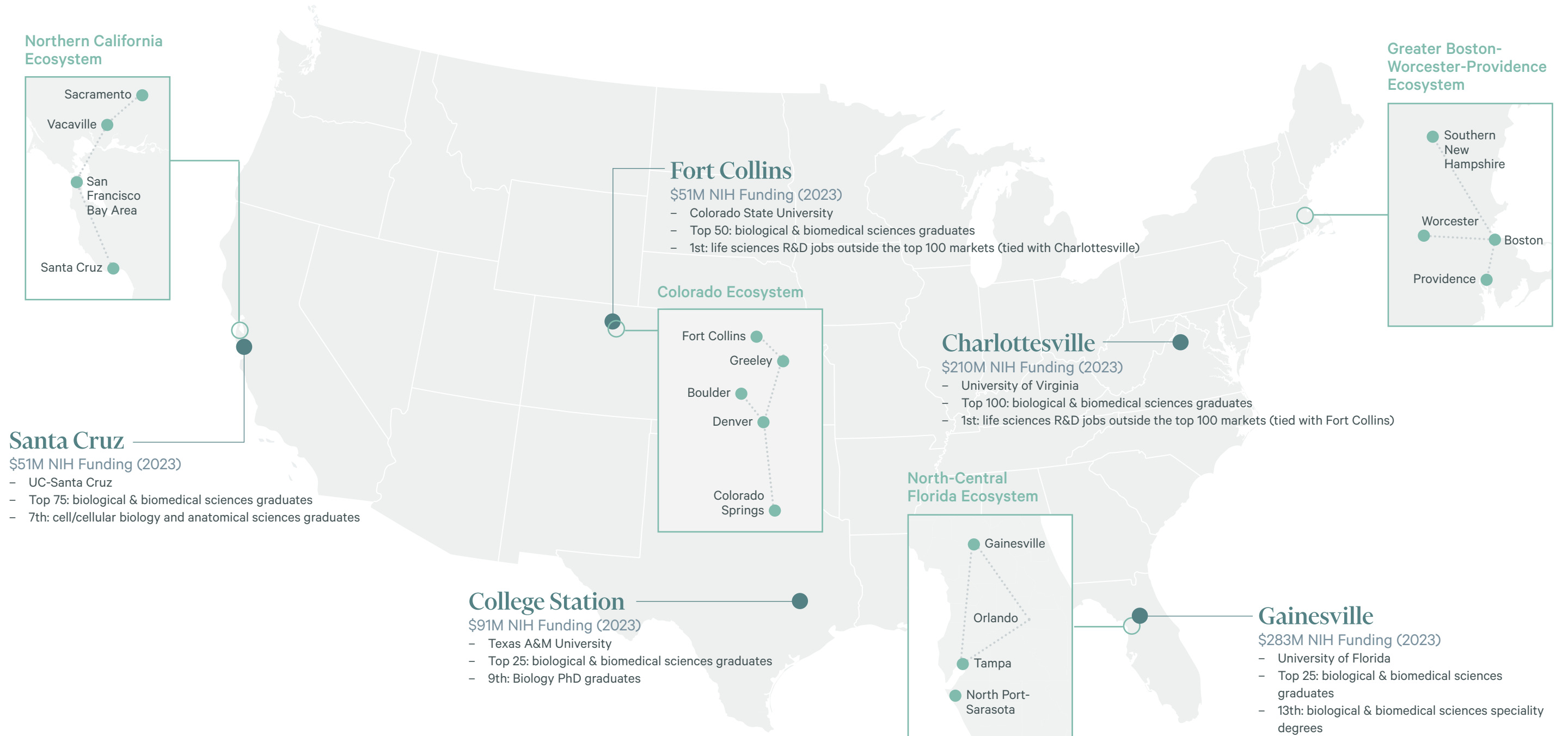
With the rise of hybrid work patterns, life sciences ecosystems are expanding beyond traditional geographic confines like Metropolitan Statistical Areas (MSAs) or Combined Statistical Areas (CSAs).

Smaller, emerging markets, frequently anchored by a research university, are key to these regional ecosystems. Consequently, our research investigated markets outside of the top 100 used for our rankings. We've highlighted a few that showed impressive occupational data and biological and biomedical sciences degrees, among other attributes.





**Figure 21:** Select Emerging Life Sciences Clusters & Regional Life Sciences Ecosystems



08

# Methodology



CBRE's analysis covers the top 100 U.S. life sciences labor markets, evaluating each based on various occupational and educational data.

This was standardized to show how each metro deviated from the group's average, with the standardized scores for each variable summed to create a final score. The scoring methodology evaluates markets on the volume and density of talent in thriving life sciences clusters.

For life sciences R&D clusters, we identified the most relevant occupations and new graduates fueling life sciences industry growth. Many data points were weighted based on their correlation to premier life sciences hubs, reflecting the most ideal elements for cluster success. The concentration of Ph.D holders and employment in professional, scientific and technical services industries also strongly correlated to cluster success.

For life sciences manufacturing clusters, we used a similar approach but only evaluated markets based on the volume and density of relevant occupations. Biological and chemical technicians were given more weight than other manufacturing occupations that were more frequently found in other industries and offered transferable skills.

Life sciences medtech clusters were also evaluated based on occupations. However, this was challenging due to the specialized skills that can be commonly found in other industries, making identifying a viable talent pool challenging. For example, industrial engineers are important to the medtech industry but are more frequently employed in other manufacturing industries like automobile manufacturing. As a result, significant effort was used to identify these medtech industry occupations and assess the possible transferability of skills from other industries.



09

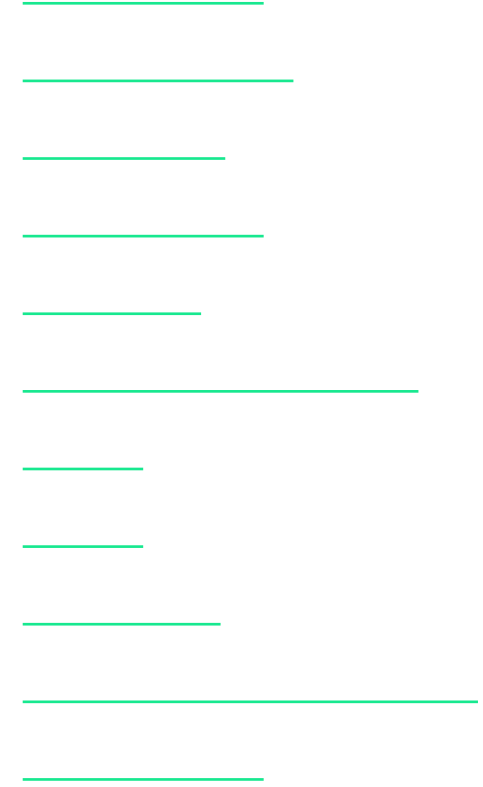
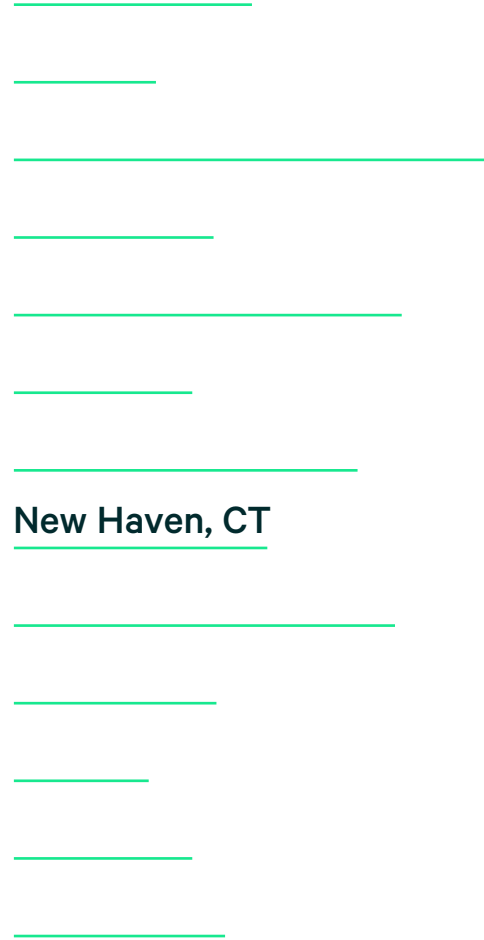
# U.S. *Market Profiles*

# Market Navigation

## 01 Albany, NY



## 21 New Haven, CT



# 01 Albany, NY

## BioPharma MFG

Rank **23**      Score **101.3**

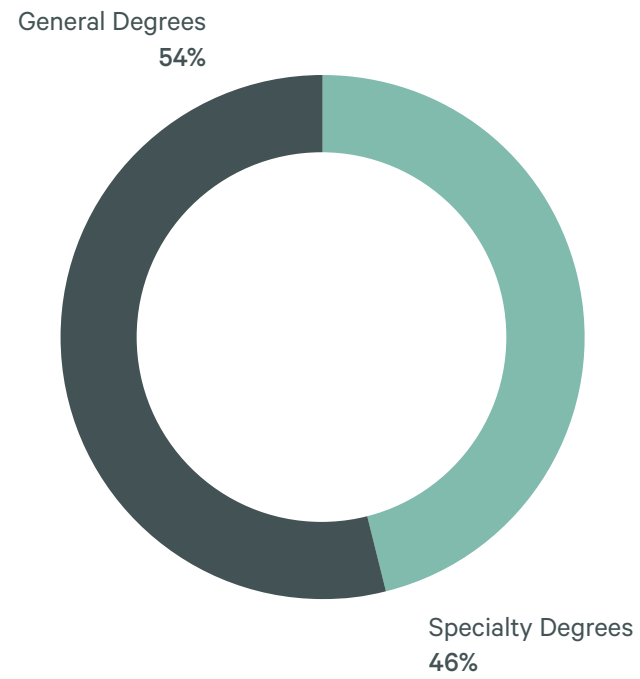
EMPLOYMENT (2023)	
<b>Total Occupations - All Occupations: 439,240</b>	
<b>Total Occupations - BioPharma MFG</b>	<b>4,300</b>
Biological Technicians	750
Chemical Technicians	360
Chemical Equipment Operators and Tenders	270
Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators and Tenders	100
Mixing and Blending Machine Setters, Operators and Tenders	290
Packaging and Filling Machine Operators and Tenders	600
Industrial Production Managers	470
Inspectors, Testers, Sorters, Samplers and Weighers	1,460

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



**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	895
5-Year Growth	9.4%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>914</b>
Certificates less than 4 years	-
Associate's Degrees	19
Bachelor's Degree	787
Master's Degree	65
Doctorate	43

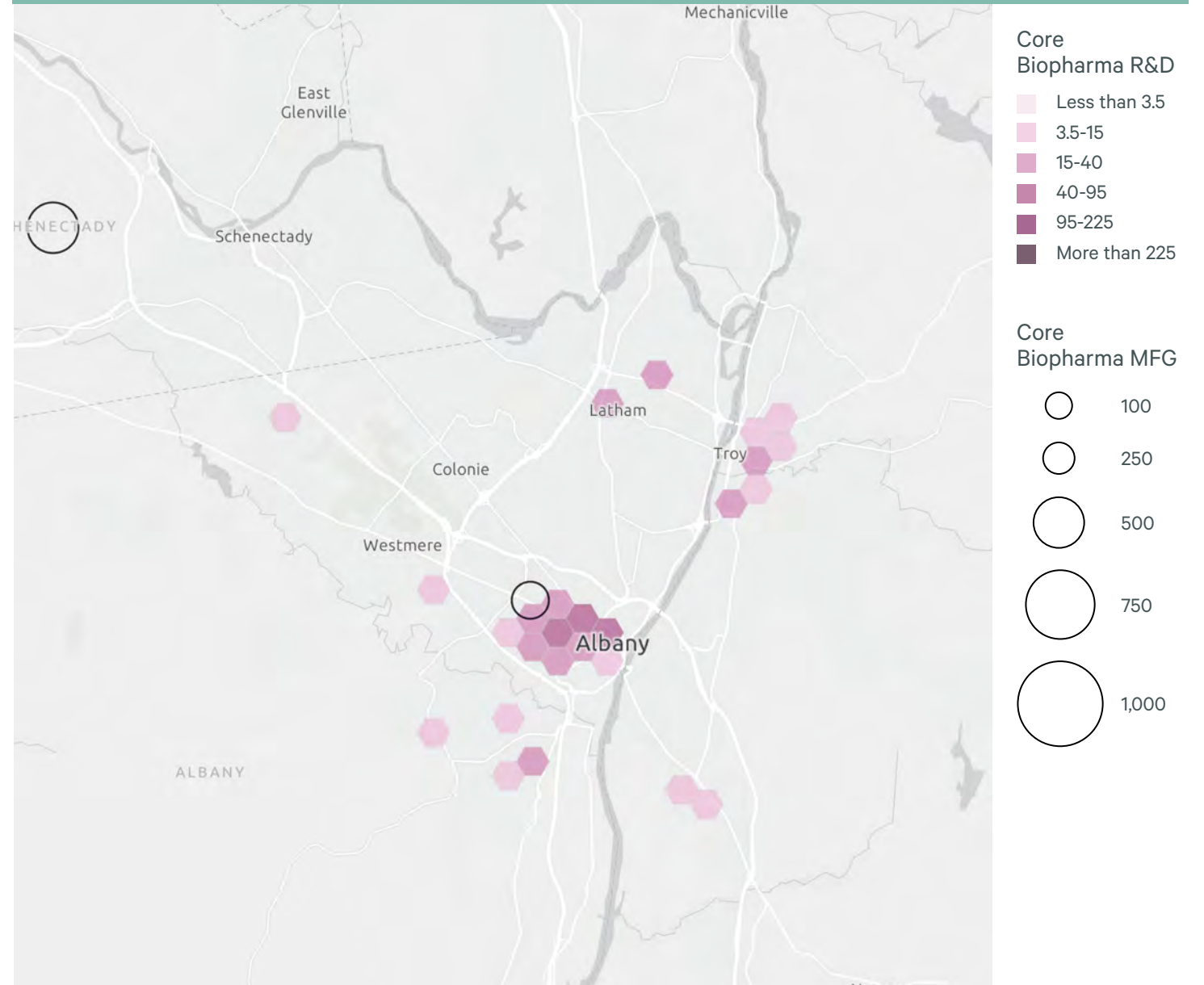


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
SUNY at Albany	249	16	22	287
Rensselaer Polytechnic Institute	133	27	13	173
Union College	106	-	-	106
Siena College	77	-	-	77
Skidmore College	73	-	-	73

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 02 Atlanta

## BioPharma R&D

Rank **15**    Score **104.3**

## BioPharma MFG

Rank **24**    Score **101.2**

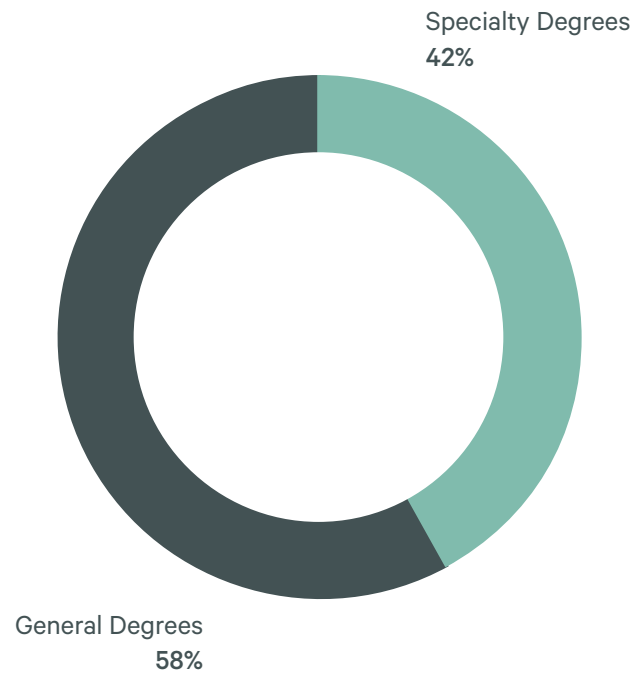
EMPLOYMENT (2023)			
Total Occupations - All Occupations: 2,817,660			
Total Occupations - BioPharma R&D		Total Occupations - BioPharma MFG	
Bioengineers and Biomedical Engineers	150	Biological Technicians	450
Biochemists and Biophysicists	30	Chemical Technicians	440
Biological Scientists, All Other	1,130	Chemical Equipment Operators and Tenders	1,850
Life Scientists, All Other	80	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators and Tenders	500
Biological Technicians	450	Mixing and Blending Machine Setters, Operators and Tenders	1,710
Data Scientists	5,220	Packaging and Filling Machine Operators and Tenders	5,870
Microbiologists	620	Industrial Production Managers	2,330
Epidemiologists	350	Inspectors, Testers, Sorters, Samplers and Weighers	9,400
Chemists	670		
Medical Scientists, Except Epidemiologists	840		

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



**TALENT PIPELINE**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	3,016
5-Year Growth	23.3%
Degree Completions (Biological & Biomedical Sciences)	
Total	3,016
Certificates less than 4 years	-
Associate's Degrees	-
Bachelor's Degree	2,273
Master's Degree	540
Doctorate	203

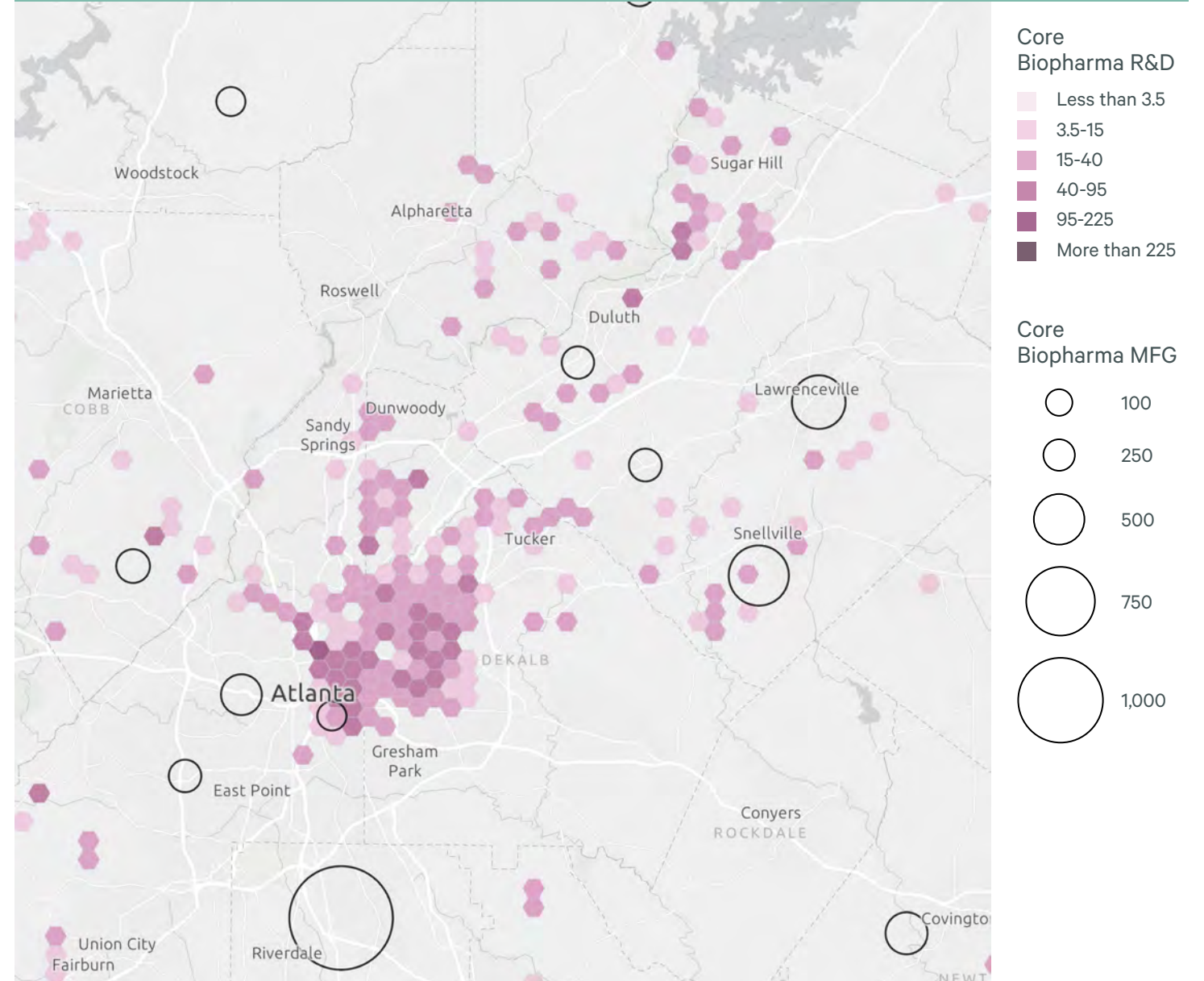


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
Emory University	372	241	110	723
Georgia Institute of Technology–Main Campus	507	106	66	679
Georgia State University	451	100	20	571
Kennesaw State University	268	14	-	282
University of West Georgia	115	8	-	123

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 03 Austin

## BioPharma R&D

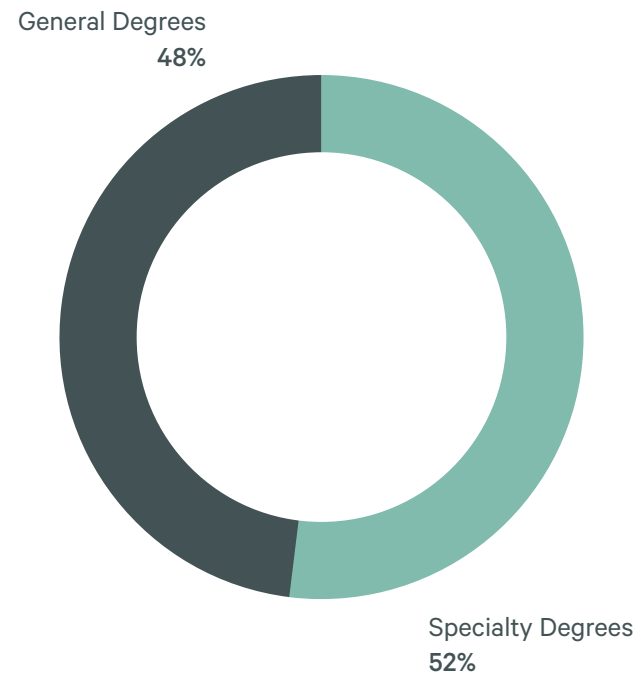
Rank **19**      Score **102.1**

EMPLOYMENT (2023)	
<b>Total Occupations - All Occupations: 1,235,440</b>	
<b>Total Occupations - BioPharma R&amp;D</b>	<b>4,300</b>
Bioengineers and Biomedical Engineers	190
Biochemists and Biophysicists	220
Biological Scientists, All Other	290
Life Scientists, All Other	-
Biological Technicians	160
Data Scientists	2,860
Microbiologists	160
Epidemiologists	120
Chemists	300
Medical Scientists, Except Epidemiologists	-

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

**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	2,023
5-Year Growth	12.1%
Degree Completions (Biological & Biomedical Sciences)	
Total	2,082
Certificates less than 4 years	-
Associate's Degrees	59
Bachelor's Degree	1,868
Master's Degree	68
Doctorate	87

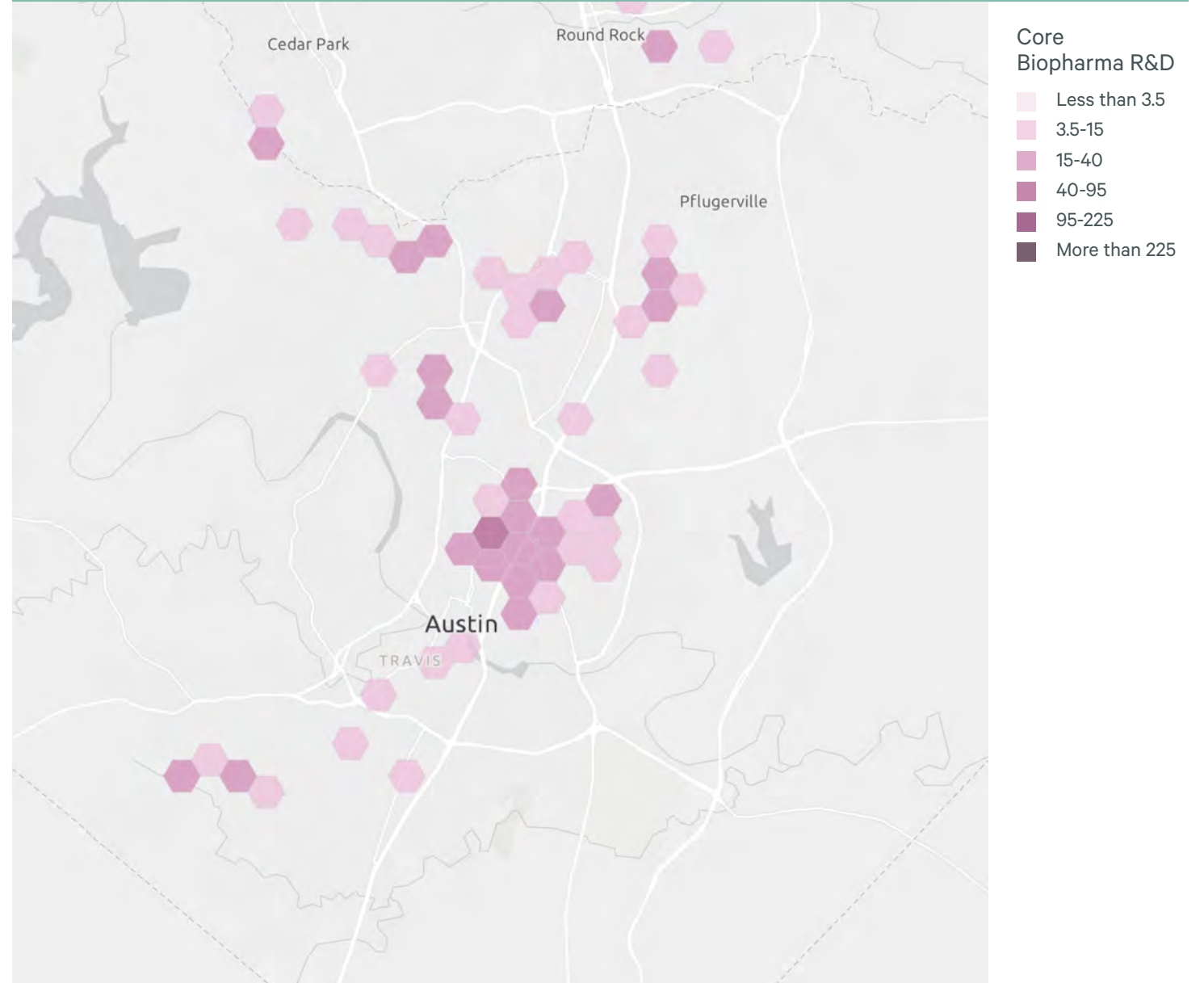


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
The University of Texas at Austin	1,384	32	87	1,503
Texas State University	354	36	-	390
Saint Edward's University	72	-	-	72
Southwestern University	40	-	-	40
Huston-Tillotson University	10	-	-	10

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 04 Boston-Cambridge

## BioPharma R&D

Rank **1**      Score **143.8**

## BioPharma MFG

Rank **2**      Score **114.0**

## Medtech

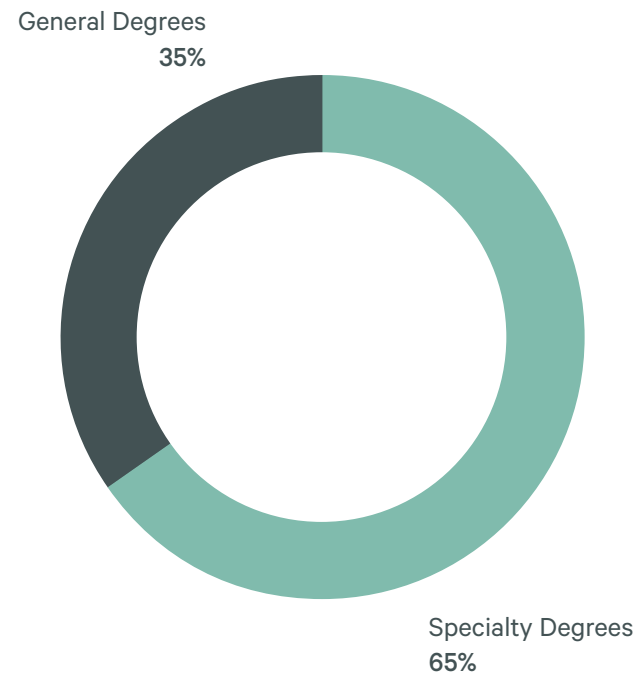
Rank **3**      Score **139.5**

EMPLOYMENT (2023)					
Total Occupations - All Occupations: 2,761,890					
Total Occupations - BioPharma R&D		Total Occupations - BioPharma MFG		Total Occupations - Medtech	
Bioengineers and Biomedical Engineers	2,680	Biological Technicians	6,170	Bioengineers and Biomedical Engineers	2,680
Biochemists and Biophysicists	10,240	Chemical Technicians	1,570	Medical Appliance Technicians	180
Biological Scientists, All Other	2,320	Chemical Equipment Operators and Tenders	1,580	Industrial Engineers	9,630
Life Scientists, All Other	230	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	550	Industrial Engineering Technologists and Technicians	2,170
Biological Technicians	6,170	Mixing and Blending Machine Setters, Operators and Tenders	430	Architectural and Engineering Managers	6,730
Data Scientists	6,670	Packaging and Filling Machine Operators and Tenders	4,450	Electrical and Electronic Engineering Technologists and Technicians	2,890
Microbiologists	2,400	Industrial Production Managers	5,230	Computer Numerically Controlled Tool Operators	2,830
Epidemiologists	520	Inspectors, Testers, Sorters, Samplers and Weighers	7,970	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	8,840
Chemists	3,960			Machinists	5,390
Medical Scientists, Except Epidemiologists	17,080				

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

**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	5,831
5-Year Growth	16.1%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>5,955</b>
Certificates less than 4 years	6
Associate's Degrees	118
Bachelor's Degree	3,707
Master's Degree	1,547
Doctorate	577

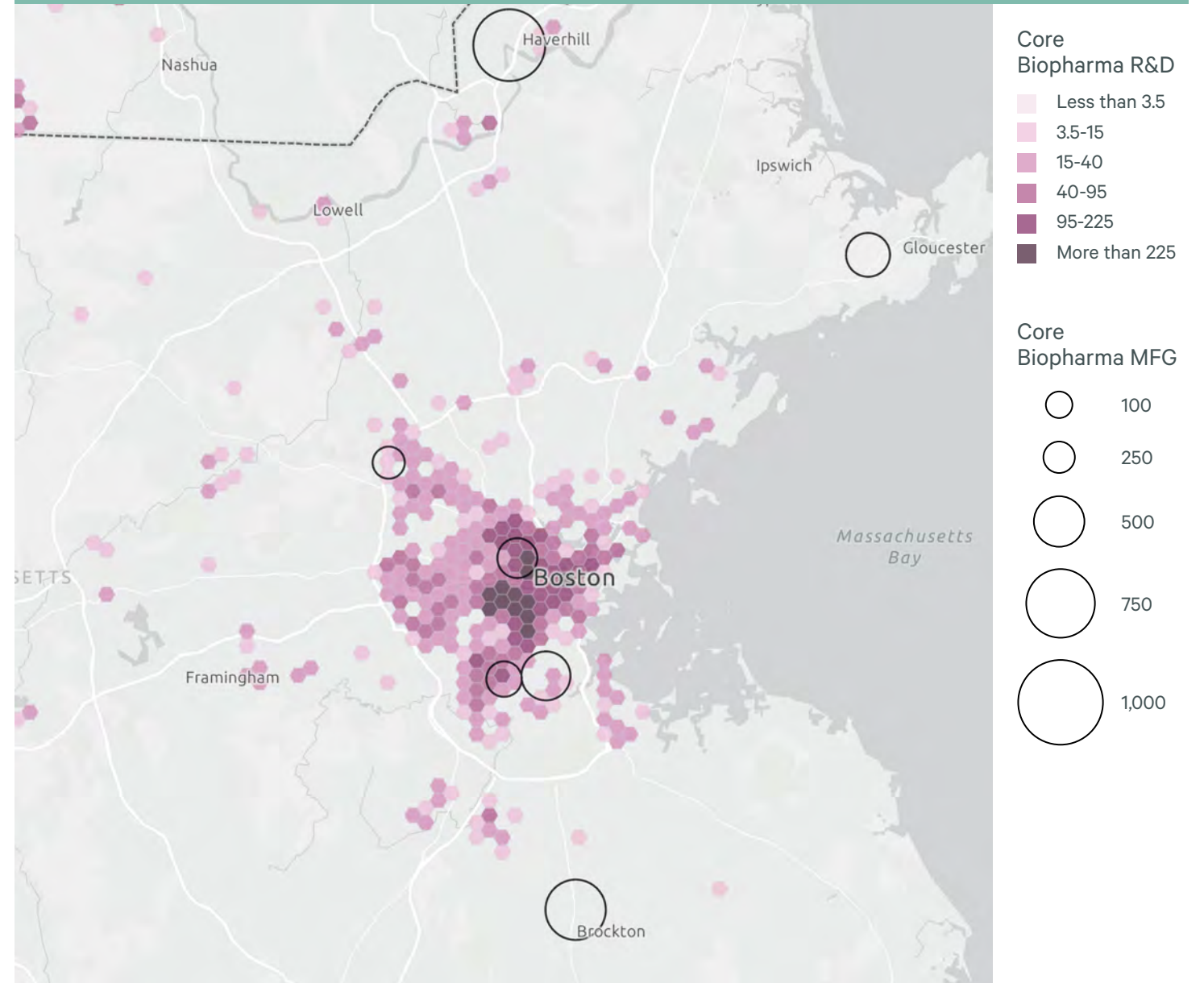


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
Boston University	677	566	104	1,347
Harvard University	242	313	237	792
Northeastern University	410	287	27	724
Tufts University	232	212	42	486
University of New Hampshire-Main Campus	318	21	11	350

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 05 Buffalo

## BioPharma MFG

Rank **22**      Score **101.7**

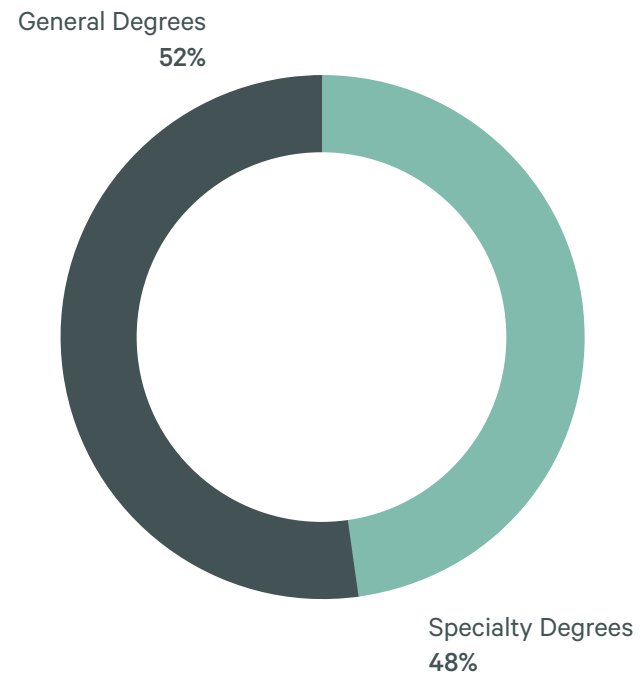
EMPLOYMENT (2023)	
<b>Total Occupations - All Occupations: 526,990</b>	
<b>Total Occupations - BioPharma MFG</b>	<b>7,350</b>
Biological Technicians	660
Chemical Technicians	270
Chemical Equipment Operators and Tenders	660
Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators and Tenders	-
Mixing and Blending Machine Setters, Operators and Tenders	570
Packaging and Filling Machine Operators and Tenders	1,580
Industrial Production Managers	870
Inspectors, Testers, Sorters, Samplers and Weighers	2,740

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



**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	1,075
5-Year Growth	8.0%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>1,095</b>
Certificates less than 4 years	-
Associate's Degrees	8
Bachelor's Degree	843
Master's Degree	189
Doctorate	55

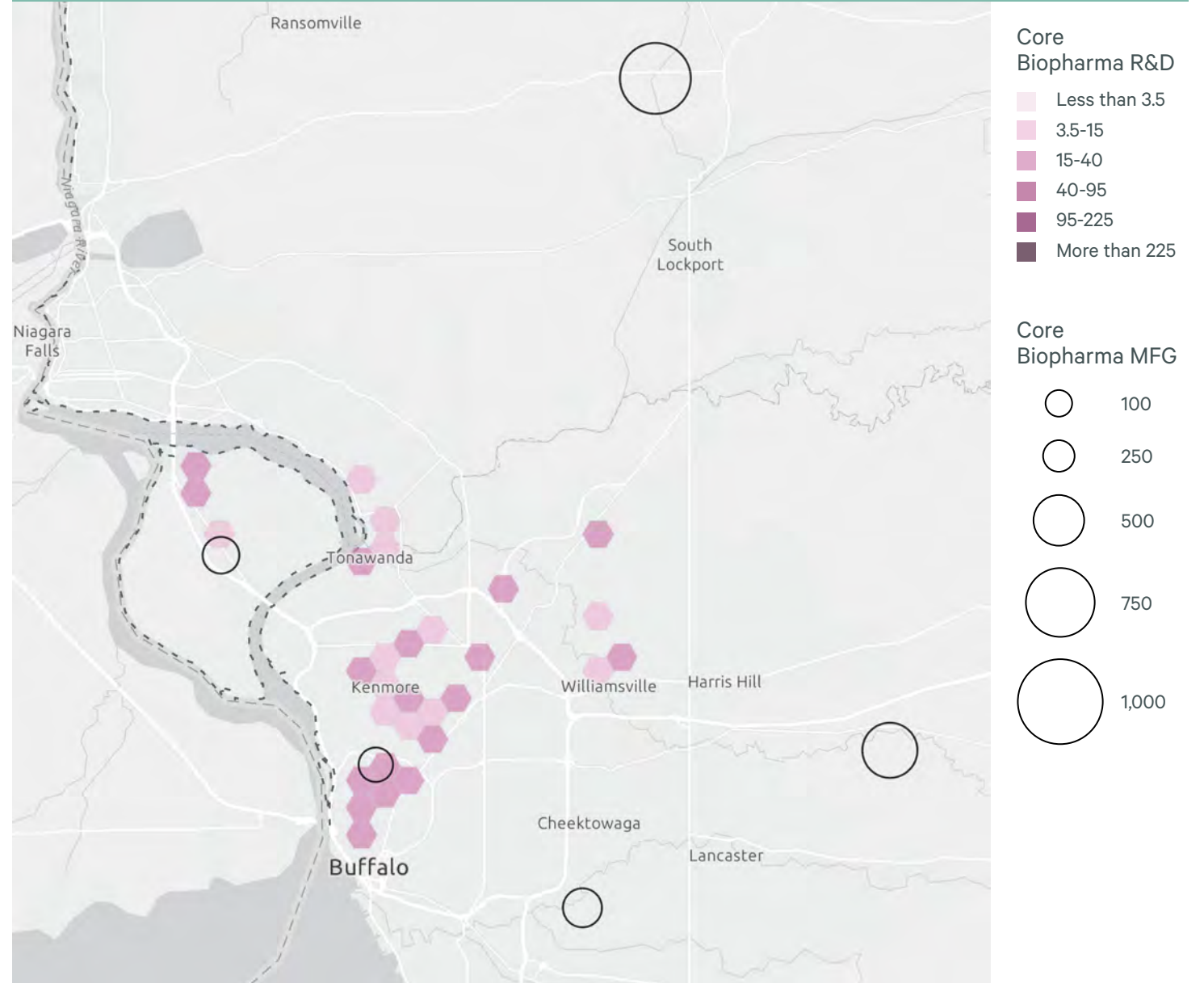


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
University at Buffalo	623	153	55	831
Canisius College	89	19	-	108
SUNY Buffalo State University	36	11	-	47
Niagara University	41	-	-	41
Medaille University	26	-	-	26

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 06 Chicago

## BioPharma R&D

Rank **10**    Score **106.3**

## BioPharma MFG

Rank **3**    Score **112.1**

## Medtech

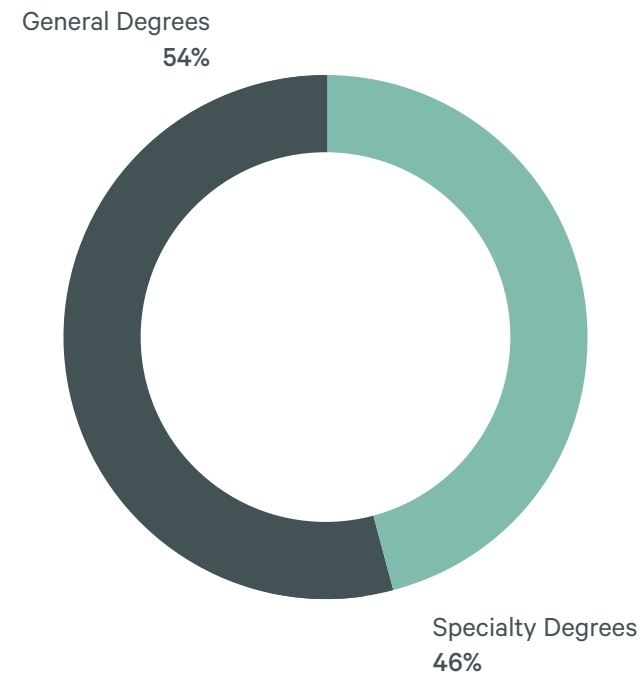
Rank **7**    Score **112.3**

EMPLOYMENT (2023)								
Total Occupations - All Occupations: 4,506,800								
Total Occupations - BioPharma R&D		13,080	Total Occupations - BioPharma MFG		60,320	Total Occupations - Medtech		50,100
Bioengineers and Biomedical Engineers	360	Biological Technicians	1,570	Bioengineers and Biomedical Engineers	360			
Biochemists and Biophysicists	100	Chemical Technicians	880	Medical Appliance Technicians	190			
Biological Scientists, All Other	470	Chemical Equipment Operators and Tenders	2,750	Industrial Engineers	12,060			
Life Scientists, All Other	130	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	710	Industrial Engineering Technologists and Technicians	1,790			
Biological Technicians	1,570	Mixing and Blending Machine Setters, Operators and Tenders	5,860	Architectural and Engineering Managers	6,240			
Data Scientists	4,930	Packaging and Filling Machine Operators and Tenders	18,940	Electrical and Electronic Engineering Technologists and Technicians	1,480			
Microbiologists	630	Industrial Production Managers	7,950	Computer Numerically Controlled Tool Operators	6,590			
Epidemiologists	140	Inspectors, Testers, Sorters, Samplers and Weighers	21,660	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	10,160			
Chemists	2,840			Machinists	11,230			
Medical Scientists, Except Epidemiologists	1,910							

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

**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	3,464
5-Year Growth	11.2%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>3,470</b>
Certificates less than 4 years	6
Associate's Degrees	-
Bachelor's Degree	2,536
Master's Degree	664
Doctorate	264

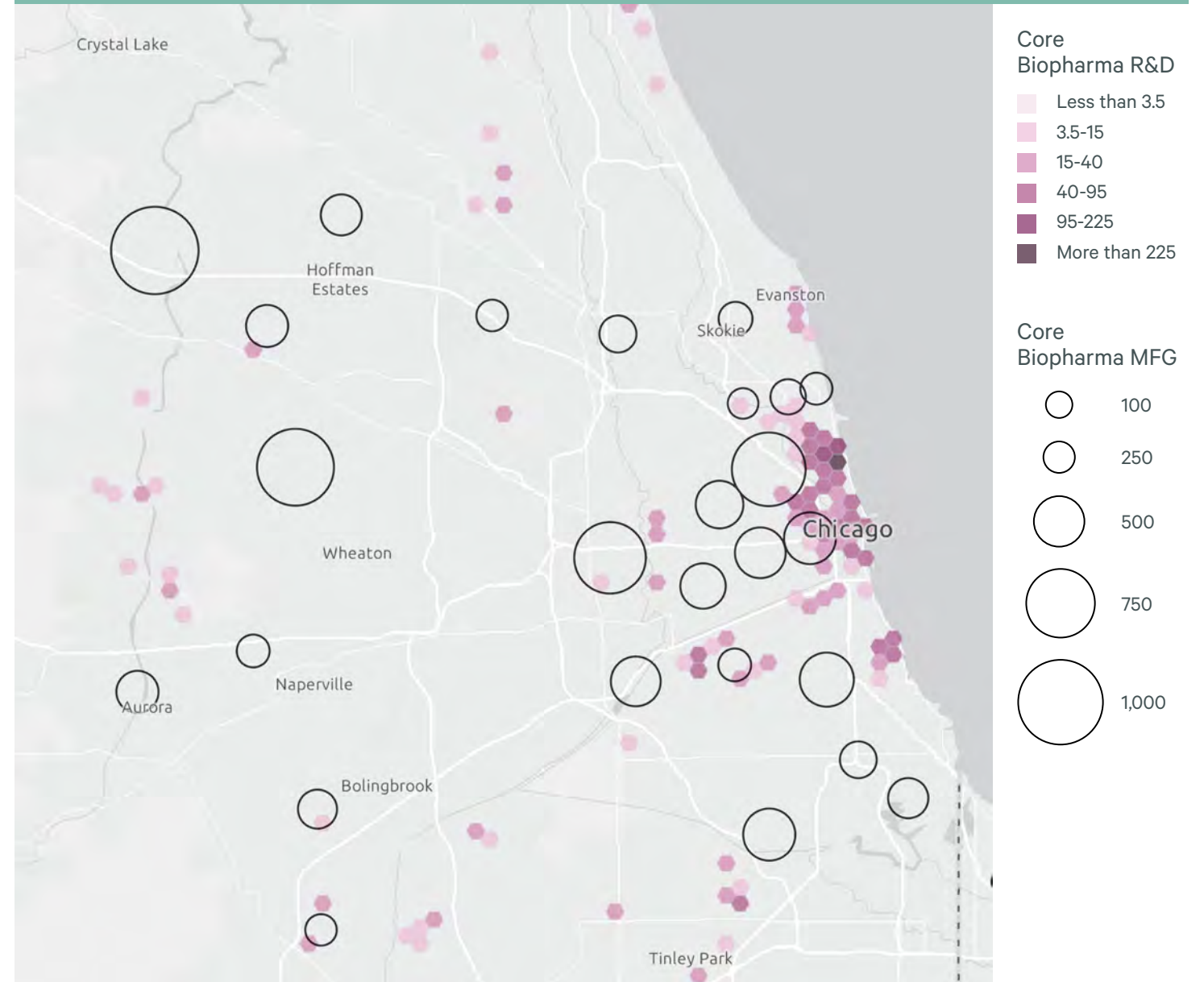


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
University of Illinois Chicago	679	53	52	784
Loyola University Chicago	475	107	10	592
Northwestern University	296	149	98	543
University of Chicago	211	88	81	380
Illinois Institute of Technology	53	37	7	97

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 07 Cincinnati

## BioPharma MFG

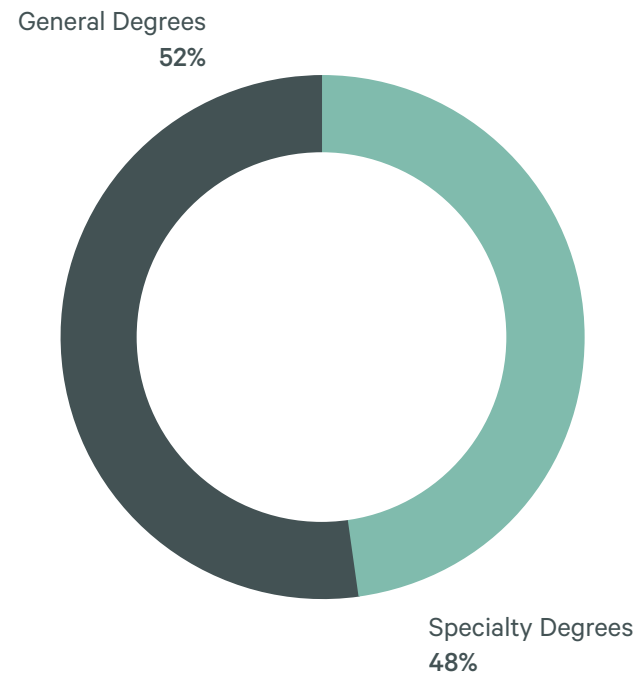
Rank **12**      Score **104.6**

EMPLOYMENT (2023)	
<b>Total Occupations - All Occupations: 1,081,800</b>	
<b>Total Occupations - BioPharma MFG</b>	<b>17,480</b>
Biological Technicians	980
Chemical Technicians	580
Chemical Equipment Operators and Tenders	1,750
Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators and Tenders	290
Mixing and Blending Machine Setters, Operators and Tenders	1,070
Packaging and Filling Machine Operators and Tenders	4,350
Industrial Production Managers	2,490
Inspectors, Testers, Sorters, Samplers and Weighers	5,970

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

**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	1,417
5-Year Growth	8.7%
Degree Completions (Biological & Biomedical Sciences)	
Total	1,590
Certificates less than 4 years	101
Associate's Degrees	72
Bachelor's Degree	1,070
Master's Degree	278
Doctorate	69

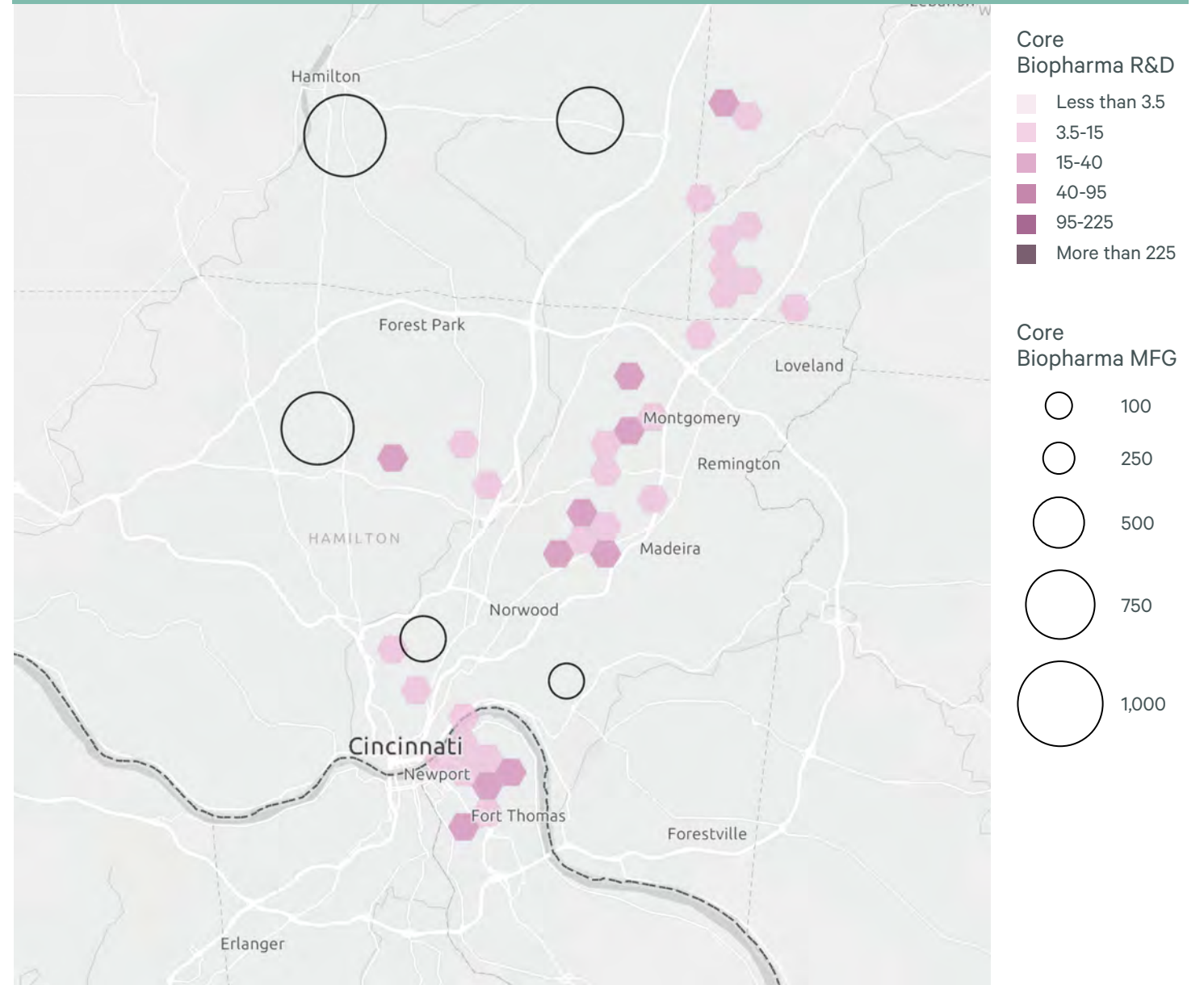


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
University of Cincinnati - Main Campus	535	128	55	718
Miami University - Oxford	328	150	14	492
Northern Kentucky University	104	-	-	104
Xavier University	47	-	-	47
Thomas More University	26	-	-	26

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 08 Cleveland

## BioPharma R&D

Rank **21**    Score **102.2**

## BioPharma MFG

Rank **19**    Score **101.3**

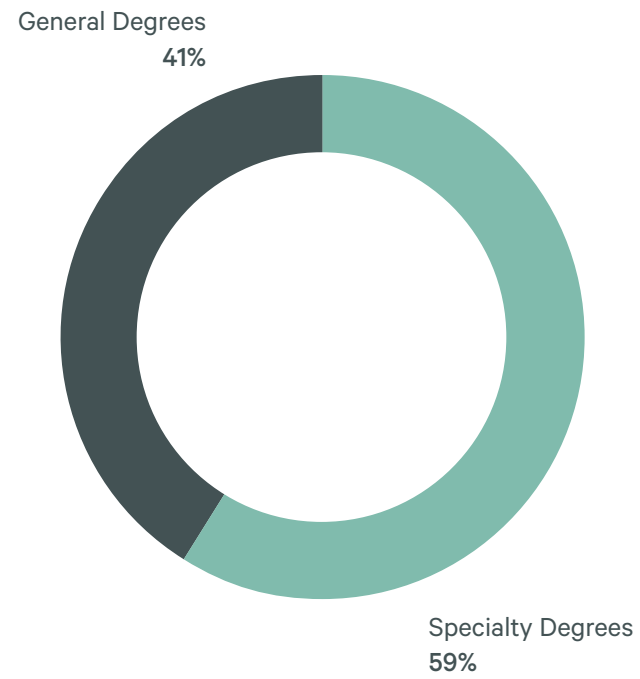
EMPLOYMENT (2023)			
Total Occupations - All Occupations: 999,500			
Total Occupations - BioPharma MFG		Total Occupations - Medtech	
Biological Technicians	740	Bioengineers and Biomedical Engineers	120
Chemical Technicians	350	Medical Appliance Technicians	100
Chemical Equipment Operators and Tenders	1,680	Industrial Engineers	2,970
Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators and Tenders	180	Industrial Engineering Technologists and Technicians	870
Mixing and Blending Machine Setters, Operators and Tenders	900	Architectural and Engineering Managers	1,260
Packaging and Filling Machine Operators and Tenders	2,170	Electrical and Electronic Engineering Technologists and Technicians	450
Industrial Production Managers	2,680	Computer Numerically Controlled Tool Operators	4,550
Inspectors, Testers, Sorters, Samplers and Weighers	5,010	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	2,580
		Machinists	3,390

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



**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	1,080
5-Year Growth	9.5%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>1,080</b>
Certificates less than 4 years	-
Associate's Degrees	-
Bachelor's Degree	679
Master's Degree	320
Doctorate	81

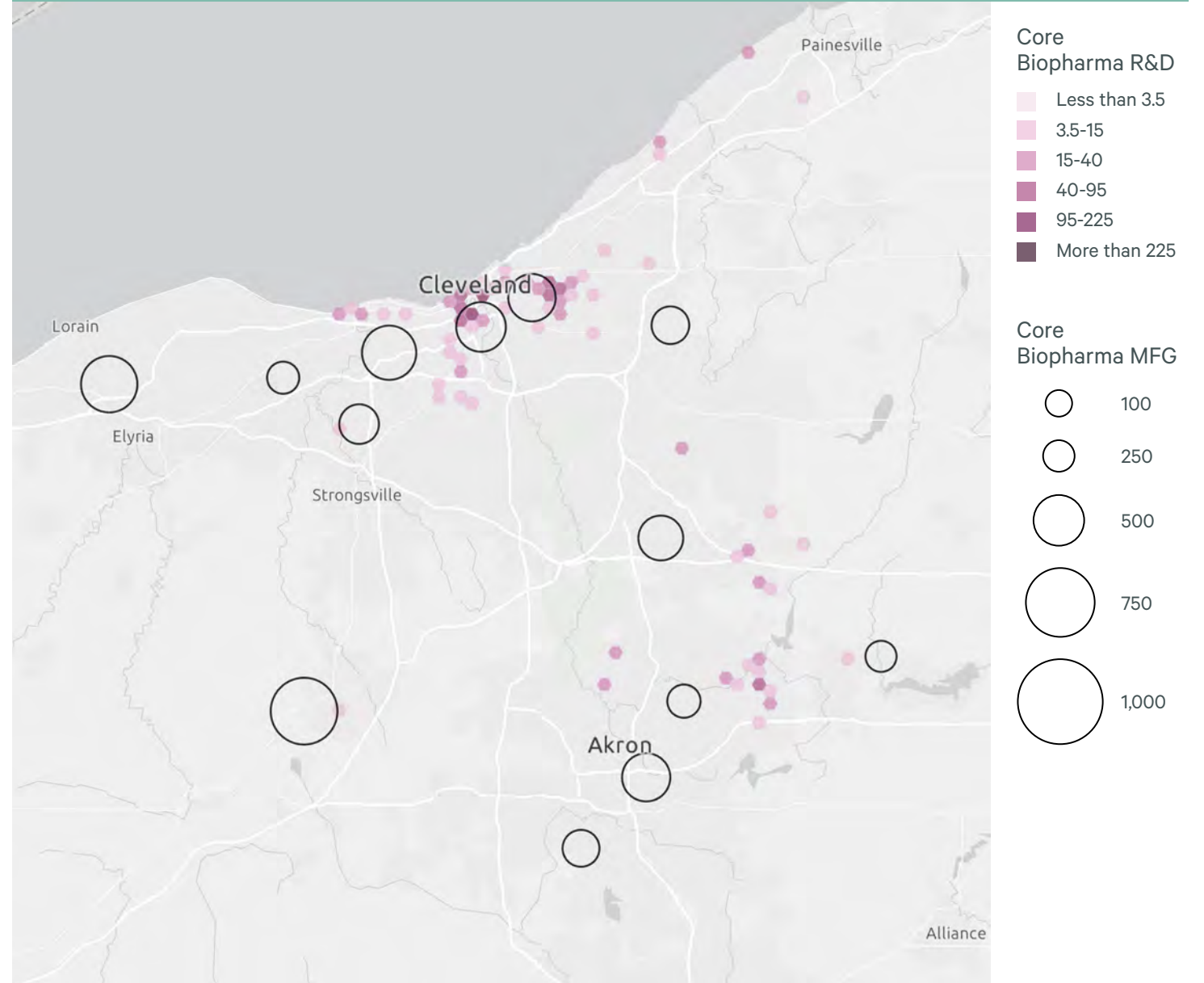


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
Case Western Reserve University	293	302	78	673
Cleveland State University	112	9	3	124
Oberlin College	120	-	-	120
John Carroll University	76	9	-	85
Baldwin Wallace University	51	-	-	51

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 09 Columbus, OH

## BioPharma R&D

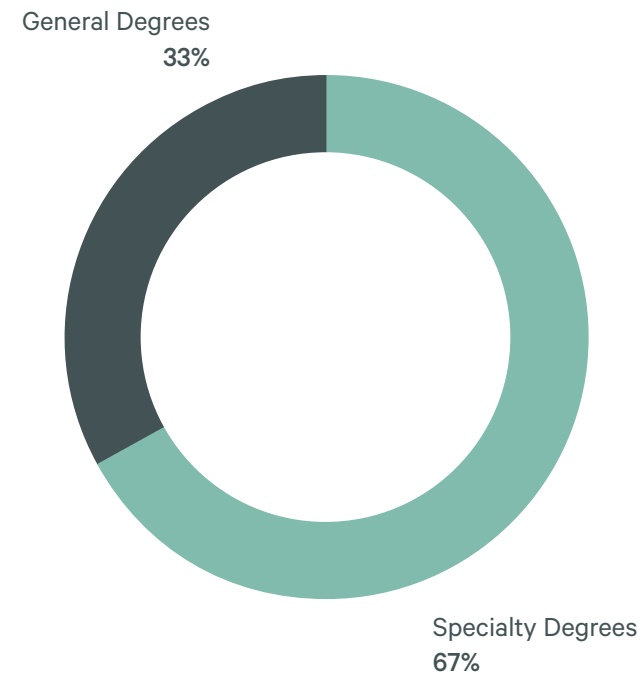
Rank **25**    Score **100.9**

EMPLOYMENT (2023)	
<b>Total Occupations - All Occupations: 1,067,190</b>	
<b>Total Occupations - BioPharma R&amp;D</b>	<b>3,930</b>
Bioengineers and Biomedical Engineers	120
Biochemists and Biophysicists	220
Biological Scientists, All Other	110
Life Scientists, All Other	100
Biological Technicians	740
Data Scientists	920
Microbiologists	210
Epidemiologists	90
Chemists	1,010
Medical Scientists, Except Epidemiologists	410

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

**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	1,738
5-Year Growth	16.3%
Degree Completions (Biological & Biomedical Sciences)	
Total	1,738
Certificates less than 4 years*	-
Associate's Degrees	-
Bachelor's Degree	1,418
Master's Degree	194
Doctorate	126



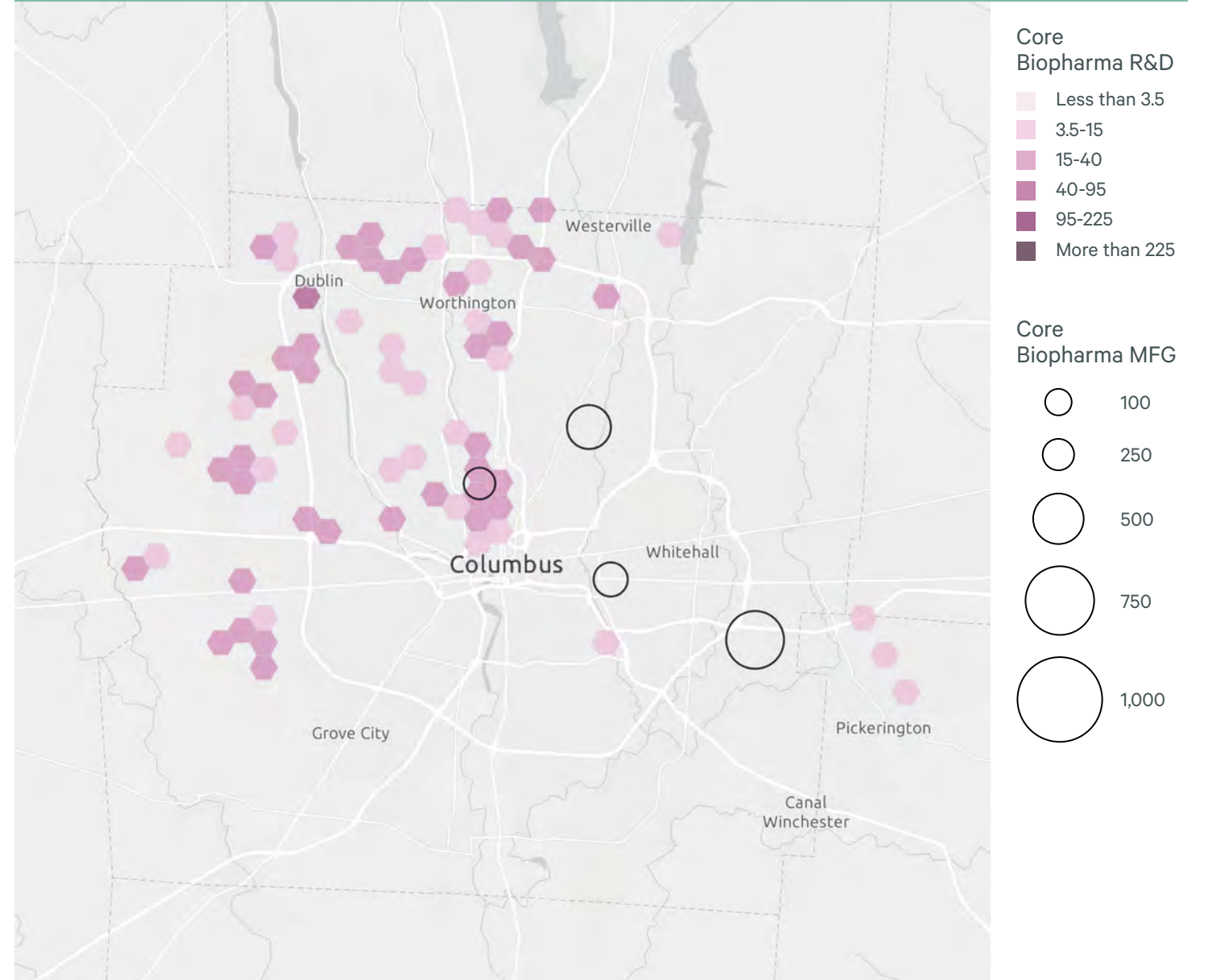
\*Does not include Columbus State Community College Biotechnology Bootcamp

**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
Ohio State University - Main Campus	1,181	194	126	1,501
Ohio Wesleyan University	76	-	-	76
Denison University	60	-	-	60
Otterbein University	46	-	-	46
Capital University	34	-	-	34

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 10 Dallas-Fort Worth

## BioPharma R&D

Rank **16** Score **103.2**

## BioPharma MFG

Rank **10** Score **104.8**

## Medtech

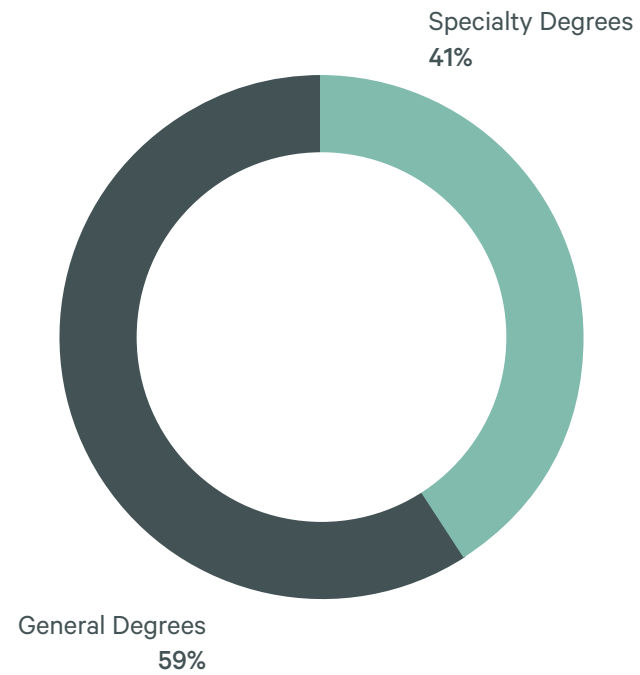
Rank **13** Score **103.8**

EMPLOYMENT (2023)								
Total Occupations - All Occupations: 3,966,500								
Total Occupations - BioPharma R&D		11,440	Total Occupations - BioPharma MFG		35,310	Total Occupations - Medtech		32,750
Bioengineers and Biomedical Engineers	440	Biological Technicians	550	Bioengineers and Biomedical Engineers	440			
Biochemists and Biophysicists	140	Chemical Technicians	1,020	Medical Appliance Technicians	220			
Biological Scientists, All Other	510	Chemical Equipment Operators and Tenders	1,810	Industrial Engineers	7,920			
Life Scientists, All Other	80	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators and Tenders	610	Industrial Engineering Technologists and Technicians	1,370			
Biological Technicians	550	Mixing and Blending Machine Setters, Operators and Tenders	3,060	Architectural and Engineering Managers	5,930			
Data Scientists	6,760	Packaging and Filling Machine Operators and Tenders	7,540	Electrical and Electronic Engineering Technologists and Technicians	2,560			
Microbiologists	110	Industrial Production Managers	5,450	Computer Numerically Controlled Tool Operators	3,470			
Epidemiologists	140	Inspectors, Testers, Sorters, Samplers and Weighers	15,270	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	6,730			
Chemists	770			Machinists	4,110			
Medical Scientists, Except Epidemiologists	1,940							

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

**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	3,099
5-Year Growth	29.4%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>3,134</b>
Certificates less than 4 years	-
Associate's Degrees	35
Bachelor's Degree	2,298
Master's Degree	630
Doctorate	171

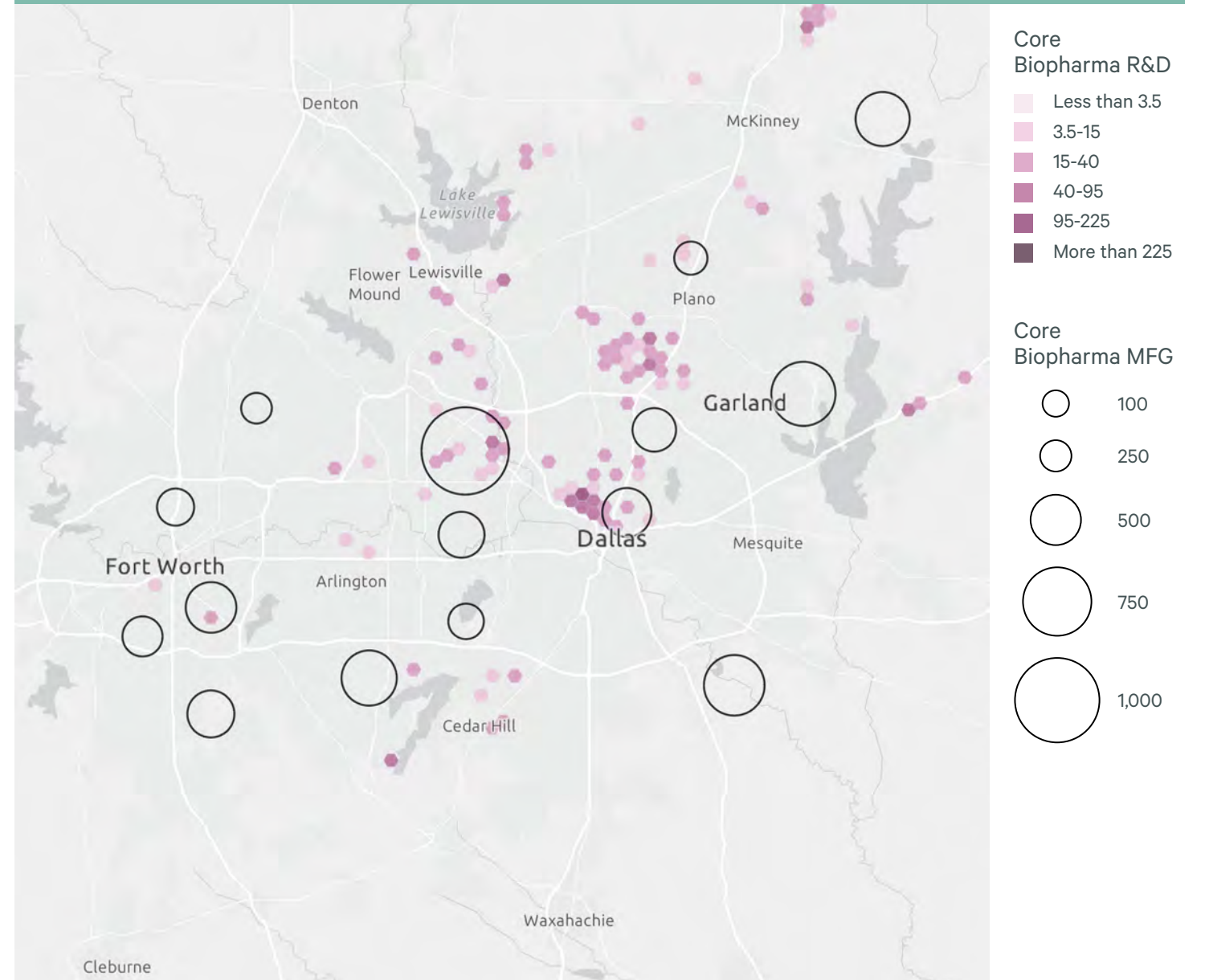


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
The University of Texas at Dallas	816	121	34	971
University of North Texas	495	29	12	536
The University of Texas at Arlington	401	48	26	475
University of North Texas Health Science Center	-	313	9	322
Texas Woman's University	102	21	3	126

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 11 Denver-Boulder

## BioPharma R&D

Rank **11** Score **105.9**

## BioPharma MFG

Rank **16** Score **102.9**

## Medtech

Rank **18** Score **101.6**

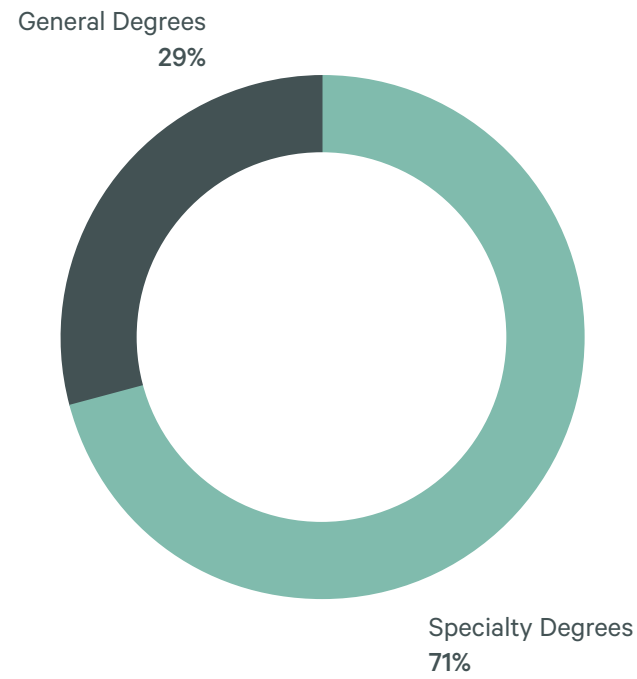
EMPLOYMENT (2023)								
Total Occupations - All Occupations: 1,784,770								
Total Occupations - BioPharma R&D		12,450	Total Occupations - BioPharma MFG		12,060	Total Occupations - Medtech		13,450
Bioengineers and Biomedical Engineers	80	Biological Technicians	2,240	Bioengineers and Biomedical Engineers	80			
Biochemists and Biophysicists	600	Chemical Technicians	670	Medical Appliance Technicians	160			
Biological Scientists, All Other	480	Chemical Equipment Operators and Tenders	520	Industrial Engineers	3,510			
Life Scientists, All Other	-	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators and Tenders	1,370	Industrial Engineering Technologists and Technicians	470			
Biological Technicians	2,240	Mixing and Blending Machine Setters, Operators and Tenders	440	Architectural and Engineering Managers	3,080			
Data Scientists	4,960	Packaging and Filling Machine Operators and Tenders	2,810	Electrical and Electronic Engineering Technologists and Technicians	860			
Microbiologists	150	Industrial Production Managers	1,060	Computer Numerically Controlled Tool Operators	650			
Epidemiologists	400	Inspectors, Testers, Sorters, Samplers and Weighers	2,950	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	3,240			
Chemists	1,520			Machinists	1,400			
Medical Scientists, Except Epidemiologists	2,020							

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



**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	2,107
5-Year Growth	5.8%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>2,107</b>
Certificates less than 4 years	-
Associate's Degrees	-
Bachelor's Degree	1,708
Master's Degree	274
Doctorate	125

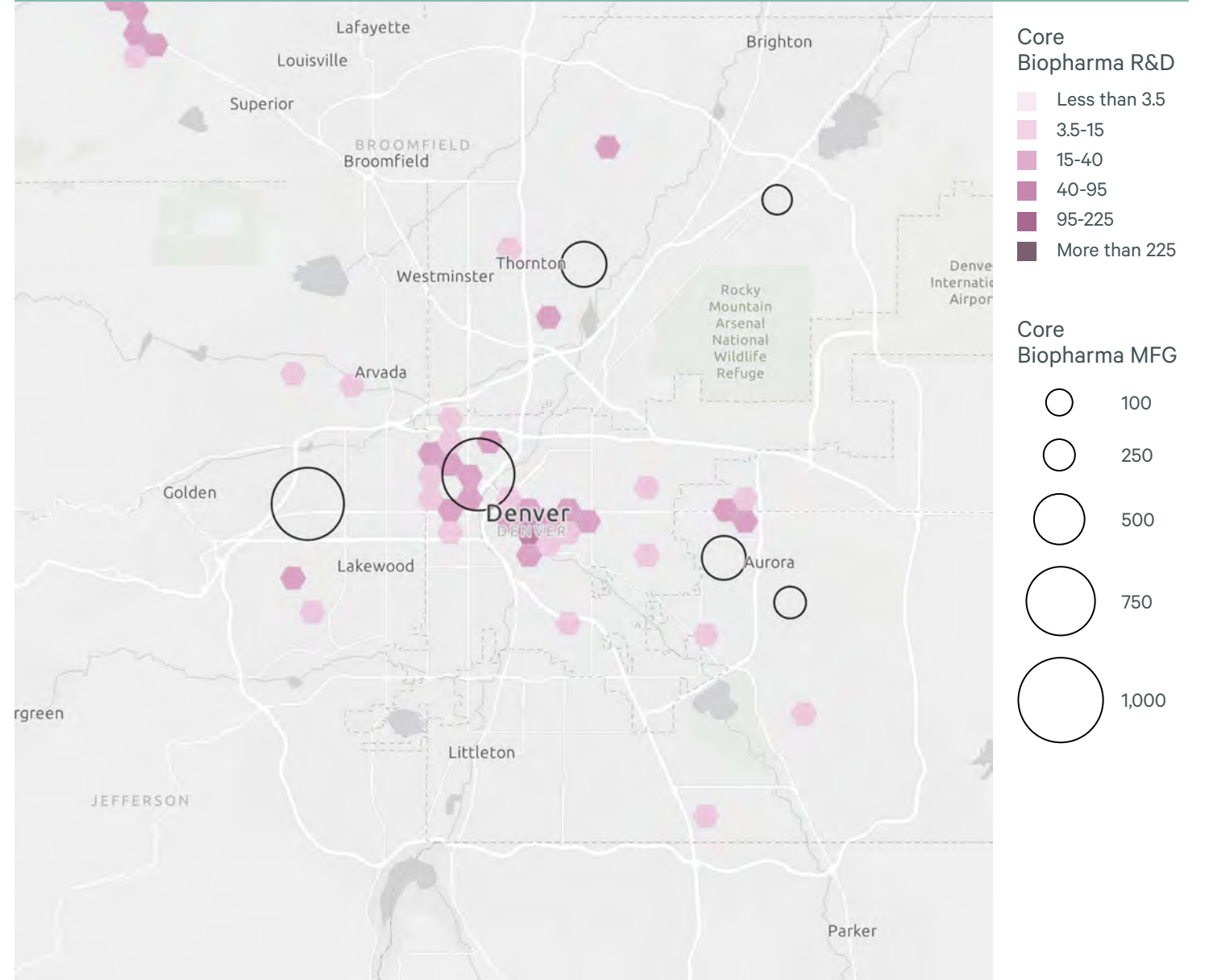


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
University of Colorado Boulder	963	34	40	1,037
University of Colorado Denver/Anschutz Medical Campus	360	110	80	550
Metropolitan State University of Denver	195	-	-	195
University of Denver	137	20	4	161
Regis University	36	41	-	77

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 12 Detroit

## BioPharma MFG

Rank **13**    Score **103.7**

## Medtech

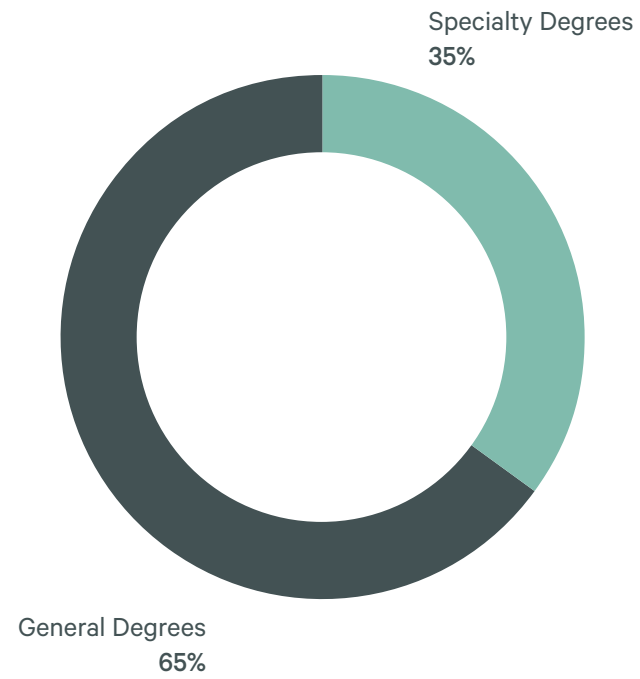
Rank **20**    Score **101.2**

EMPLOYMENT (2023)			
Total Occupations - All Occupations: 1,900,180			
Total Occupations - BioPharma MFG	26,890	Total Occupations - Medtech	45,570
Biological Technicians	310	Bioengineers and Biomedical Engineers	130
Chemical Technicians	490	Medical Appliance Technicians	210
Chemical Equipment Operators and Tenders	1,530	Industrial Engineers	14,990
Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators and Tenders	520	Industrial Engineering Technologists and Technicians	3,080
Mixing and Blending Machine Setters, Operators and Tenders	1,100	Architectural and Engineering Managers	8,420
Packaging and Filling Machine Operators and Tenders	3,960	Electrical and Electronic Engineering Technologists and Technicians	1,350
Industrial Production Managers	6,580	Computer Numerically Controlled Tool Operators	3,050
Inspectors, Testers, Sorters, Samplers and Weighers	12,400	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	4,260
		Machinists	10,080

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

**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	917
5-Year Growth	-0.7%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>931</b>
Certificates less than 4 years	1
Associate's Degrees	13
Bachelor's Degree	755
Master's Degree	114
Doctorate	48

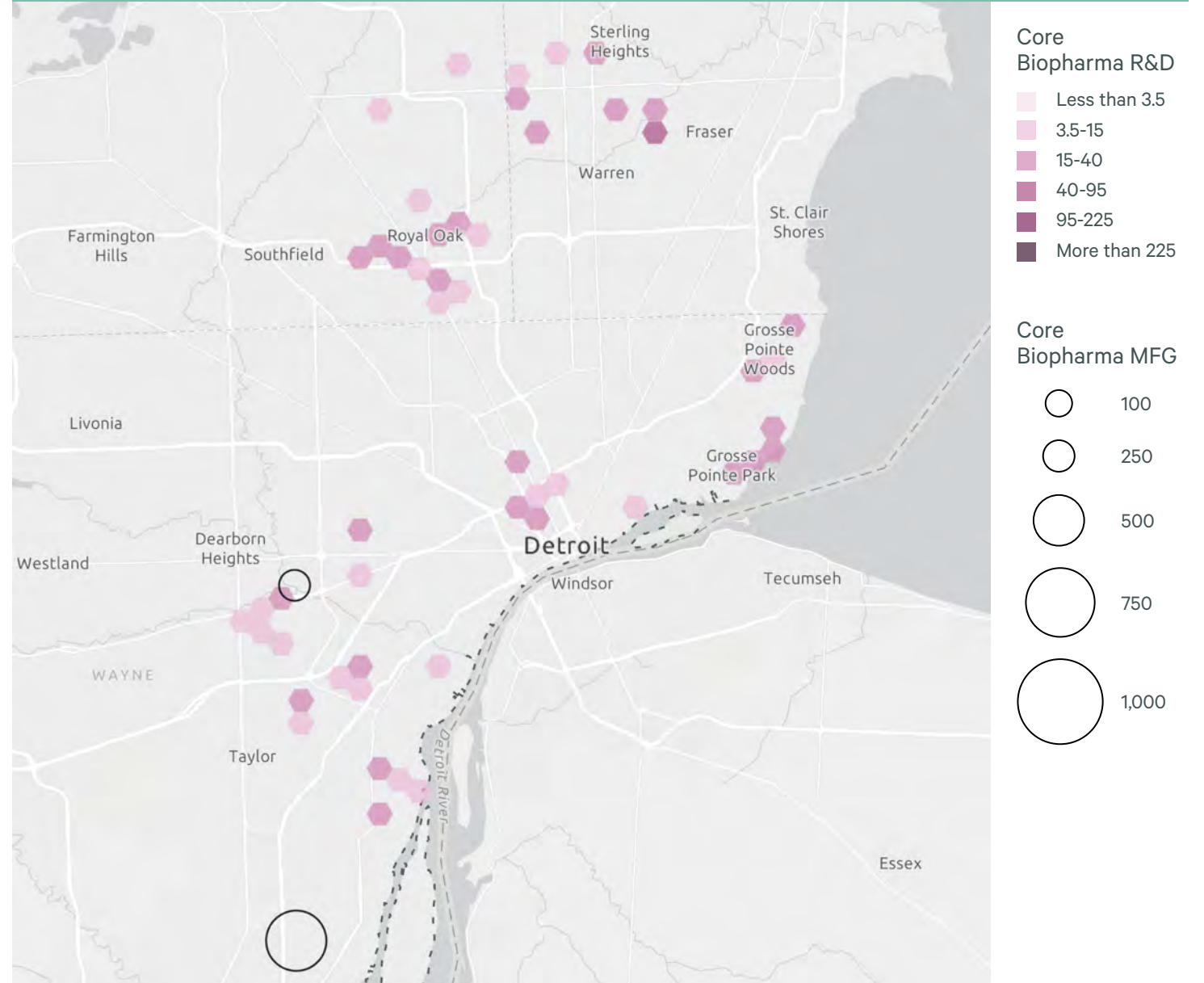


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
Wayne State University	219	83	44	346
Oakland University	204	29	4	237
University of Michigan-Dearborn	162	2	-	164
University of Detroit Mercy	124	-	-	124
Lawrence Technological University	29	-	-	29

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 13 Grand Rapids, MI

## BioPharma MFG

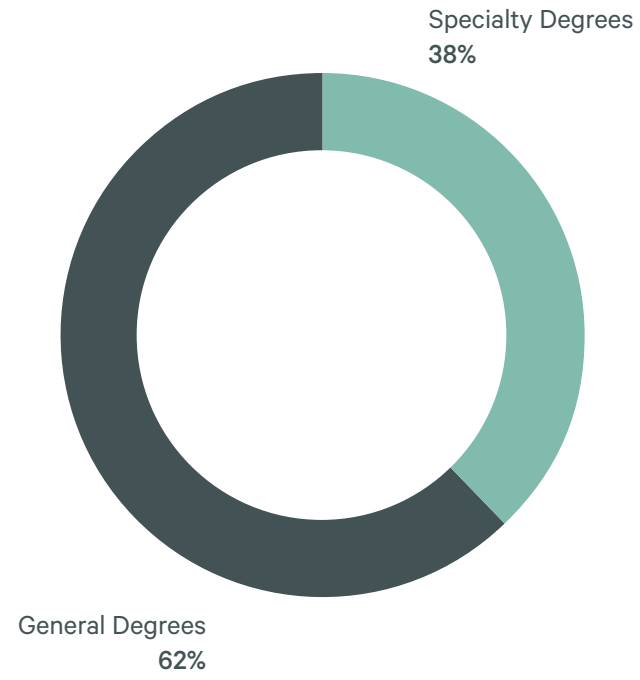
Rank **17**      Score **102.8**

EMPLOYMENT (2023)	
<b>Total Occupations - All Occupations: 536,790</b>	
<b>Total Occupations - BioPharma MFG</b>	<b>12,840</b>
Biological Technicians	90
Chemical Technicians	130
Chemical Equipment Operators and Tenders	500
Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators and Tenders	190
Mixing and Blending Machine Setters, Operators and Tenders	640
Packaging and Filling Machine Operators and Tenders	3,630
Industrial Production Managers	2,280
Inspectors, Testers, Sorters, Samplers and Weighers	5,380

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

### TALENT PIPELINE (2022)

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	708
5-Year Growth	87.3%
Degree Completions (Biological & Biomedical Sciences)	
Total	710
Certificates less than 4 years*	2
Associate's Degrees	-
Bachelor's Degree	650
Master's Degree	58
Doctorate	0

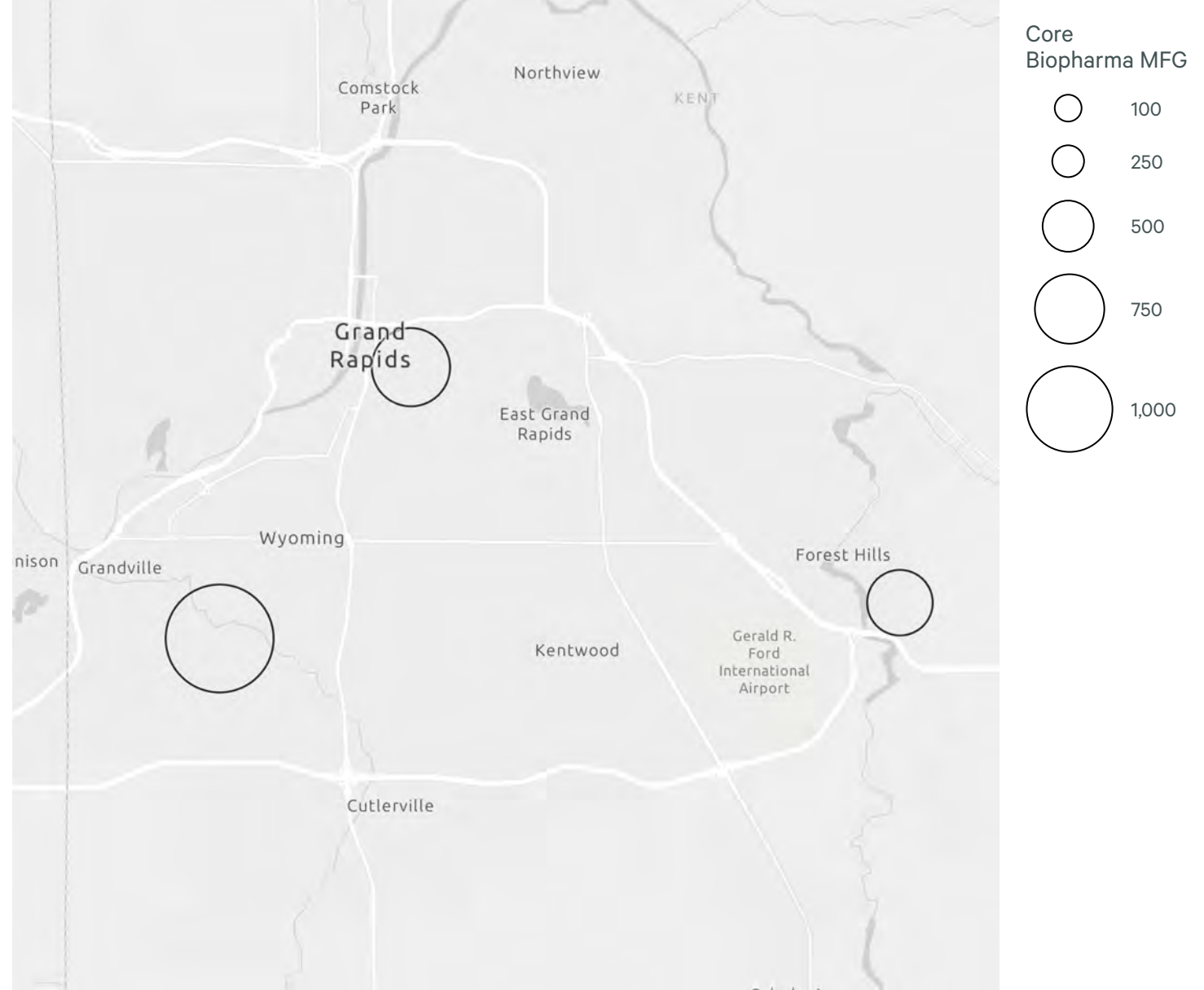


### TOP LIFE SCIENCES COLLEGES & UNIVERSITIES

School	Bachelors	Masters	Doctorate	Total
Grand Valley State University	481	58	-	539
Calvin University	82	-	-	82
Hope College	61	-	-	61
Aquinas College	17	-	-	17
Cornerstone University	9	-	-	9

Source: IPEDS, CBRE Research

### LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?



Source: CBRE Location Intelligence

# 14 Greenville, SC

## BioPharma MFG

Rank **20**    Score **102.4**

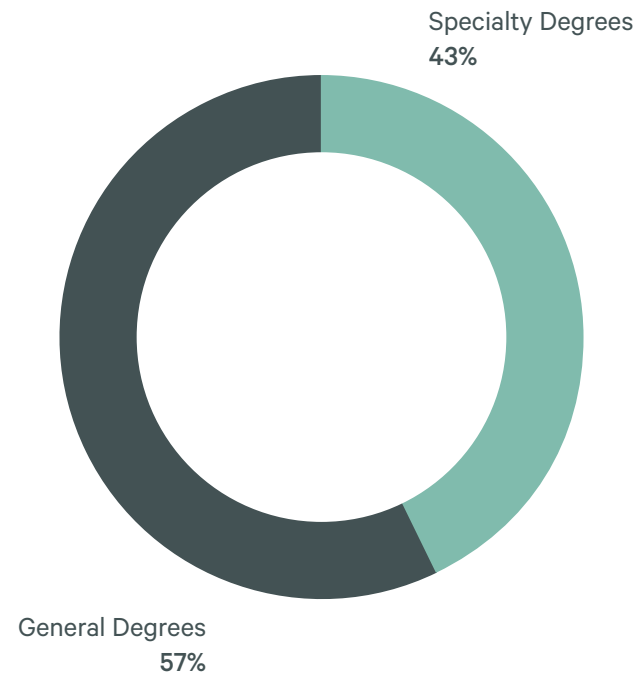
EMPLOYMENT (2023)	
<b>Total Occupations - All Occupations: 422,160</b>	
<b>Total Occupations - BioPharma MFG</b>	<b>9,230</b>
Biological Technicians	80
Chemical Technicians	290
Chemical Equipment Operators and Tenders	830
Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators and Tenders	80
Mixing and Blending Machine Setters, Operators and Tenders	1,060
Packaging and Filling Machine Operators and Tenders	1,440
Industrial Production Managers	1,290
Inspectors, Testers, Sorters, Samplers and Weighers	4,160

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



**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	923
5-Year Growth	11.2%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>923</b>
Certificates less than 4 years*	-
Associate's Degrees	-
Bachelor's Degree	742
Master's Degree	149
Doctorate	32

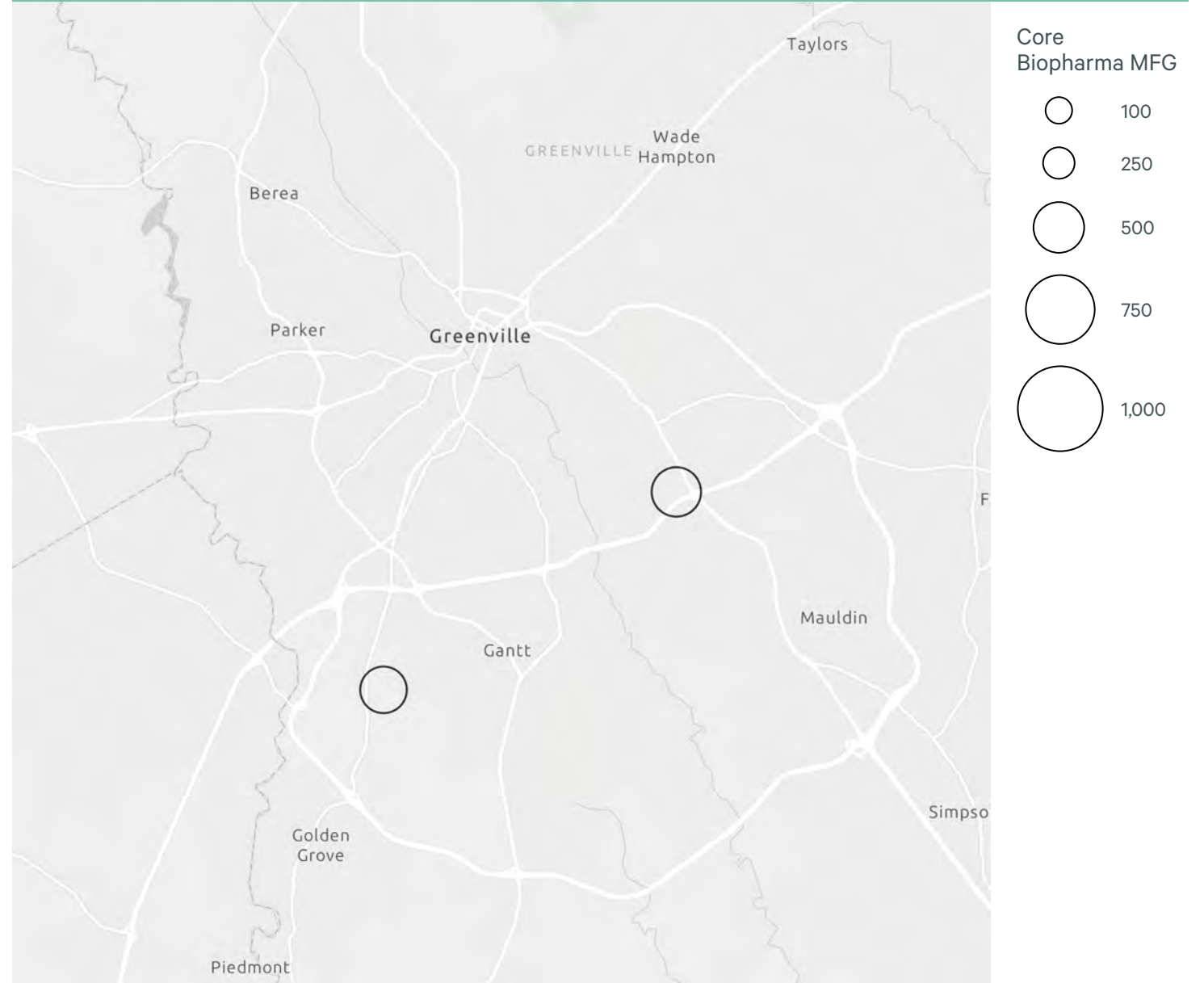


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
Clemson University	568	149	32	749
Furman University	61	-	-	61
Presbyterian College	49	-	-	49
Anderson University	19	-	-	19
North Greenville University	18	-	-	18

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 15 Houston

## BioPharma R&D

Rank **13**    Score **105.3**

## BioPharma MFG

Rank **4**    Score **111.8**

## Medtech

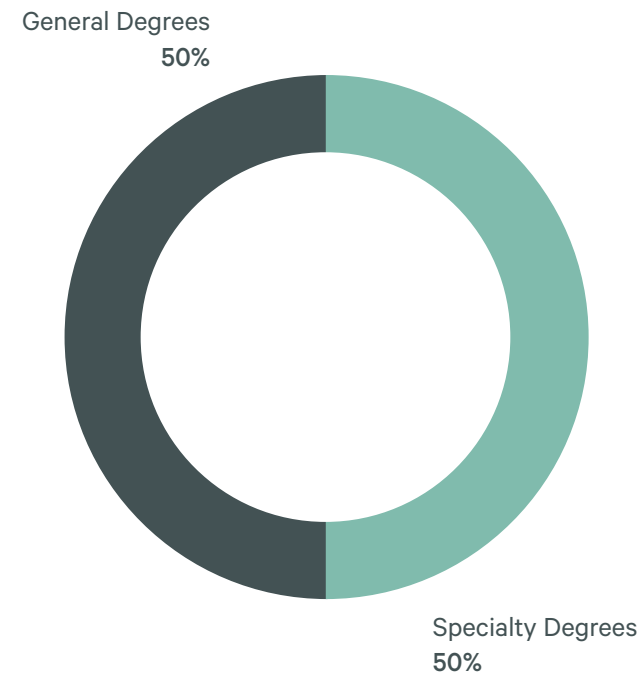
Rank **14**    Score **102.1**

EMPLOYMENT (2023)								
Total Occupations - All Occupations: 3,179,460								
Total Occupations - BioPharma R&D		15,690	Total Occupations - BioPharma MFG		38,370	Total Occupations - Medtech		32,170
Bioengineers and Biomedical Engineers	260	Biological Technicians	1,880	Bioengineers and Biomedical Engineers	260			
Biochemists and Biophysicists	60	Chemical Technicians	3,150	Medical Appliance Technicians	130			
Biological Scientists, All Other	540	Chemical Equipment Operators and Tenders	6,150	Industrial Engineers	7,210			
Life Scientists, All Other	110	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	580	Industrial Engineering Technologists and Technicians	1,560			
Biological Technicians	1,880	Mixing and Blending Machine Setters, Operators and Tenders	1,900	Architectural and Engineering Managers	5,760			
Data Scientists	5,300	Packaging and Filling Machine Operators and Tenders	4,270	Electrical and Electronic Engineering Technologists and Technicians	2,090			
Microbiologists	160	Industrial Production Managers	6,080	Computer Numerically Controlled Tool Operators	5,020			
Epidemiologists	170	Inspectors, Testers, Sorters, Samplers and Weighers	14,360	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	3,610			
Chemists	1,730			Machinists	6,530			
Medical Scientists, Except Epidemiologists	5,480							

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

**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	1,902
5-Year Growth	32.4%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>2,514</b>
Certificates less than 4 years	-
Associate's Degrees	612
Bachelor's Degree	1,210
Master's Degree	405
Doctorate	287

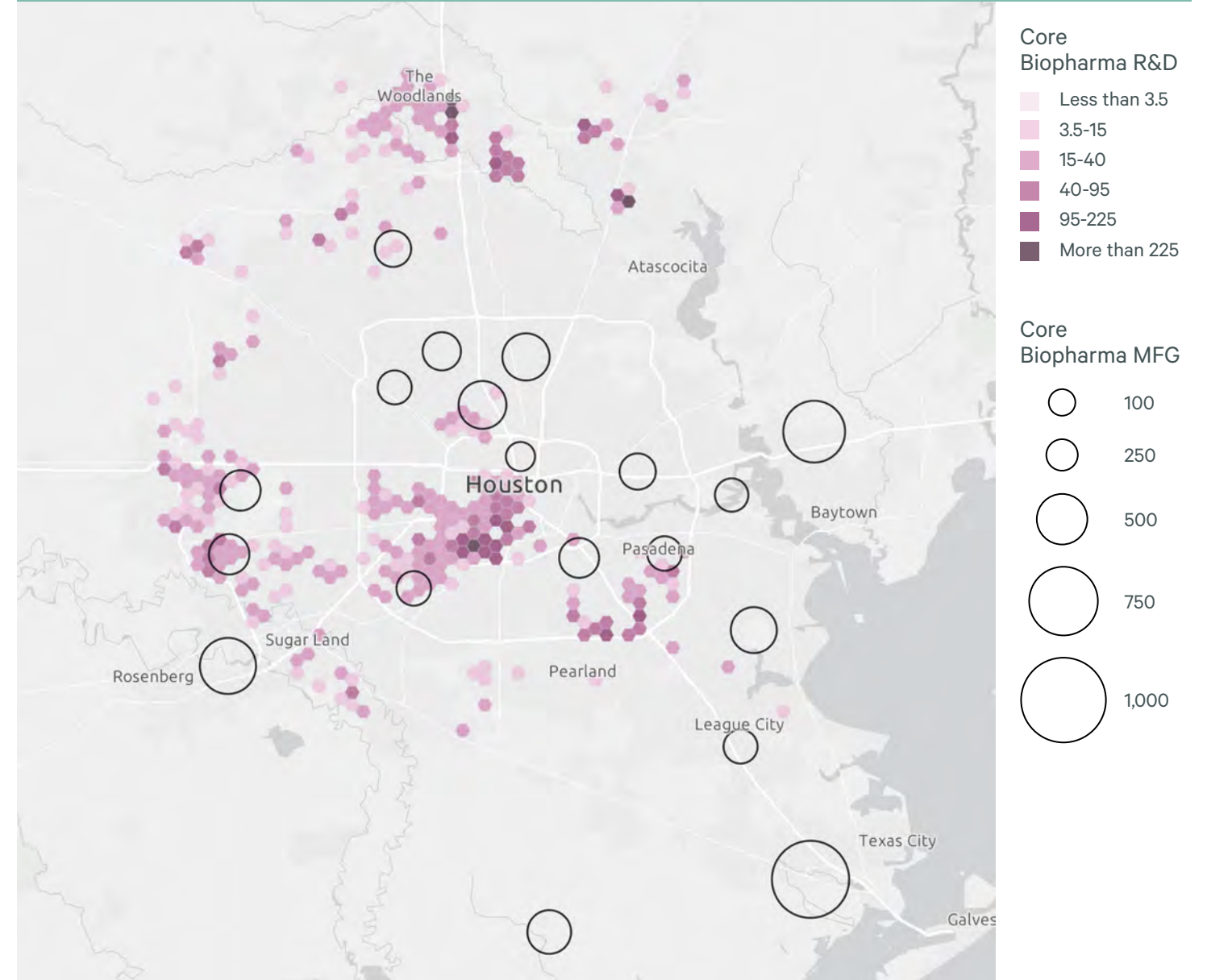


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
University of Houston	608	93	45	746
The University of Texas Health Science Center at Houston	-	182	86	268
Rice University	173	35	29	237
University of Houston - Clear Lake	104	47	-	151
Texas Southern University	78	11	14	103

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 16 Los Angeles-Orange County

## BioPharma R&D

Rank **5**      Score **117.3**

## BioPharma MFG

Rank **6**      Score **111.6**

## Medtech

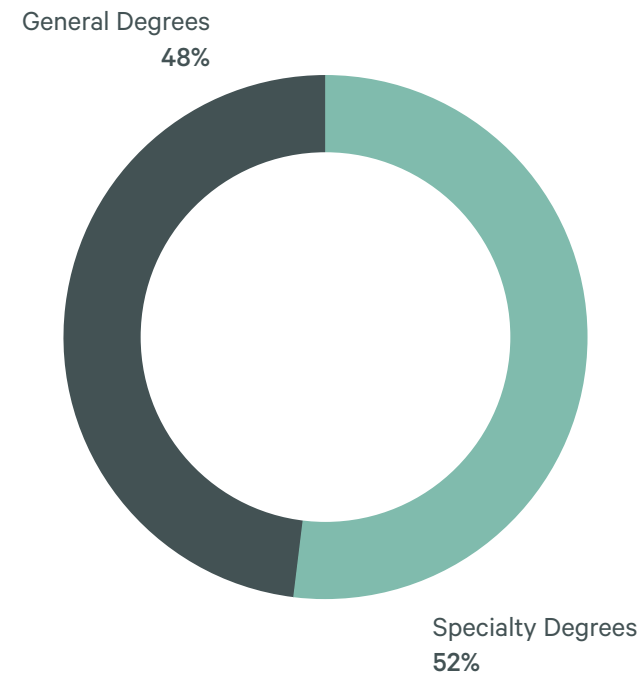
Rank **1**      Score **149.4**

EMPLOYMENT (2023)								
Total Occupations - All Occupations: 6,185,570								
Total Occupations - BioPharma R&D		26,140	Total Occupations - BioPharma MFG		53,380	Total Occupations - Medtech		56,940
Bioengineers and Biomedical Engineers	860	Biological Technicians	1,660	Bioengineers and Biomedical Engineers	860			
Biochemists and Biophysicists	670	Chemical Technicians	2,470	Medical Appliance Technicians	1,090			
Biological Scientists, All Other	2,600	Chemical Equipment Operators and Tenders	1,690	Industrial Engineers	9,100			
Life Scientists, All Other	560	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	1,770	Industrial Engineering Technologists and Technicians	1,400			
Biological Technicians	1,660	Mixing and Blending Machine Setters, Operators and Tenders	2,820	Architectural and Engineering Managers	11,300			
Data Scientists	9,220	Packaging and Filling Machine Operators and Tenders	12,580	Electrical and Electronic Engineering Technologists and Technicians	4,110			
Microbiologists	770	Industrial Production Managers	8,700	Computer Numerically Controlled Tool Operators	8,670			
Epidemiologists	340	Inspectors, Testers, Sorters, Samplers and Weighers	21,690	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	12,300			
Chemists	2,970			Machinists	8,110			
Medical Scientists, Except Epidemiologists	6,490							

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

**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	6,583
5-Year Growth	15.6%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>7,887</b>
Certificates less than 4 years	151
Associate's Degrees	1,153
Bachelor's Degree	5,415
Master's Degree	736
Doctorate	432

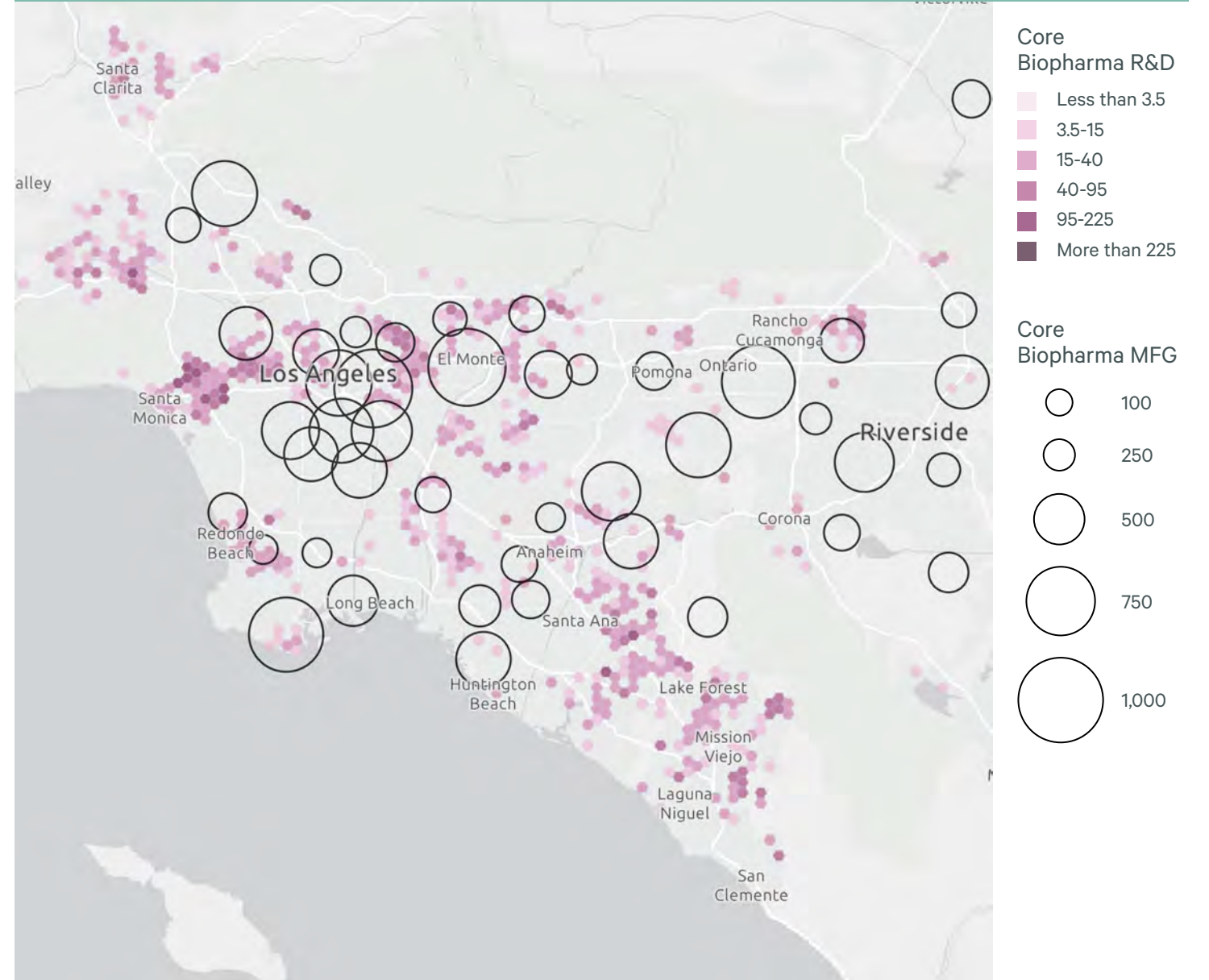


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
University of California - Los Angeles	1,586	106	171	1,863
University of California - Irvine	1,075	110	95	1,280
University of Southern California	321	234	96	651
California State University - Long Beach	467	26	-	493
California State University - Northridge	318	20	-	338

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 17 Madison, WI

## BioPharma R&D

Rank **14** Score **105.2**

## BioPharma MFG

Rank **11** Score **104.7**

## Medtech

Rank **17** Score **101.6**

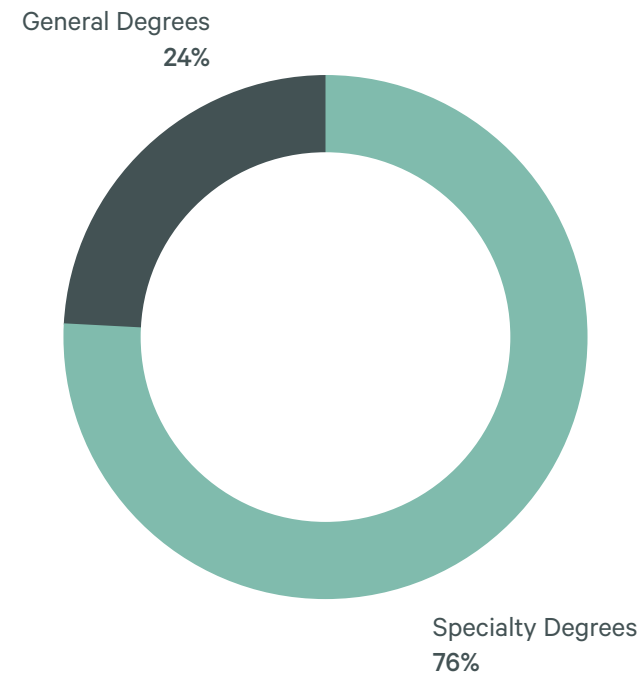
EMPLOYMENT (2023)								
Total Occupations - All Occupations: 396,960								
Total Occupations - BioPharma R&D		5,720	Total Occupations - BioPharma MFG		6,310	Total Occupations - Medtech		5,280
Bioengineers and Biomedical Engineers		90	Biological Technicians		1,110	Bioengineers and Biomedical Engineers		90
Biochemists and Biophysicists		250	Chemical Technicians		240	Medical Appliance Technicians		30
Biological Scientists, All Other		430	Chemical Equipment Operators and Tenders		490	Industrial Engineers		1,390
Life Scientists, All Other		-	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders		190	Industrial Engineering Technologists and Technicians		320
Biological Technicians		1,110	Mixing and Blending Machine Setters, Operators and Tenders		390	Architectural and Engineering Managers		700
Data Scientists		810	Packaging and Filling Machine Operators and Tenders		1,620	Electrical and Electronic Engineering Technologists and Technicians		280
Microbiologists		670	Industrial Production Managers		570	Computer Numerically Controlled Tool Operators		770
Epidemiologists		50	Inspectors, Testers, Sorters, Samplers and Weighers		1,700	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers		1,050
Chemists		920				Machinists		650
Medical Scientists, Except Epidemiologists		1,390						

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



**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	1,707
5-Year Growth	11.7%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>1,837</b>
Certificates less than 4 years	130
Associate's Degrees	1,368
Bachelor's Degree	195
Master's Degree	144
Doctorate	432

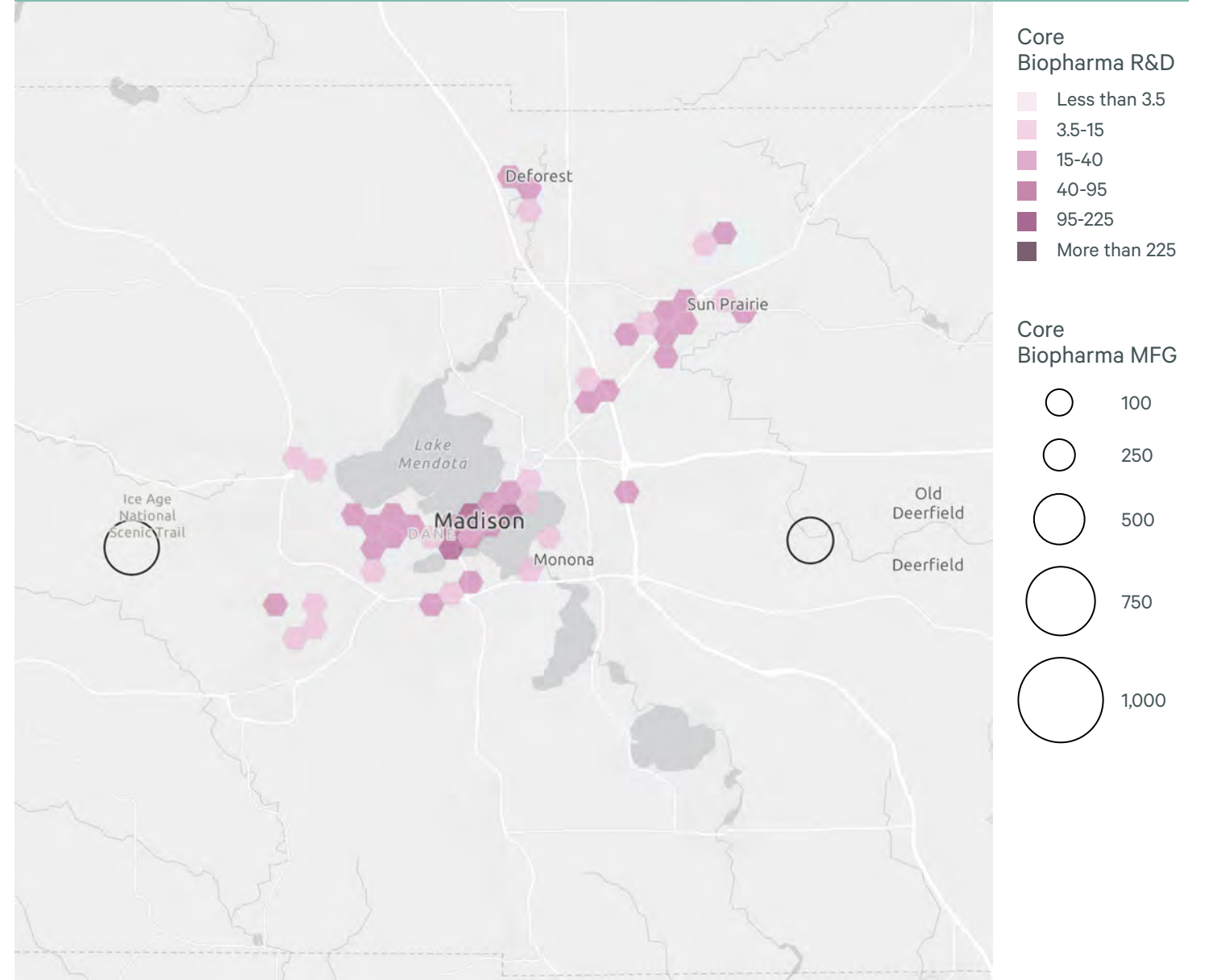


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
University of Wisconsin-Madison	1,335	195	144	1,674
Edgewood College	33	-	-	33

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 18 Miami-Fort Lauderdale

## BioPharma R&D

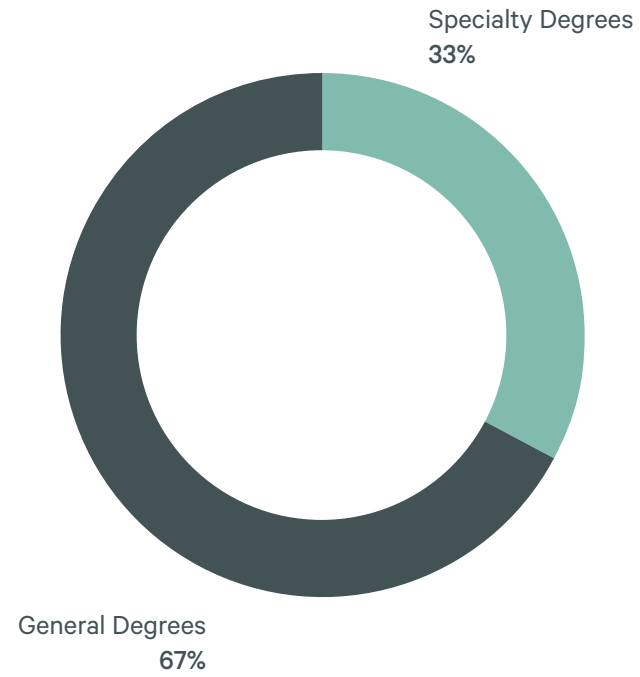
Rank **21**    Score **101.6**

EMPLOYMENT (2023)	
<b>Total Occupations - All Occupations: 2,721,490</b>	
<b>Total Occupations - BioPharma R&amp;D</b>	<b>6,420</b>
Bioengineers and Biomedical Engineers	140
Biochemists and Biophysicists	150
Biological Scientists, All Other	1,310
Life Scientists, All Other	-
Biological Technicians	760
Data Scientists	2,090
Microbiologists	70
Epidemiologists	80
Chemists	510
Medical Scientists, Except Epidemiologists	1,310

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

**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	3,293
5-Year Growth	24.7%
Degree Completions (Biological & Biomedical Sciences)	
Total	3,296
Certificates less than 4 years*	3
Associate's Degrees	-
Bachelor's Degree	2,554
Master's Degree	656
Doctorate	83

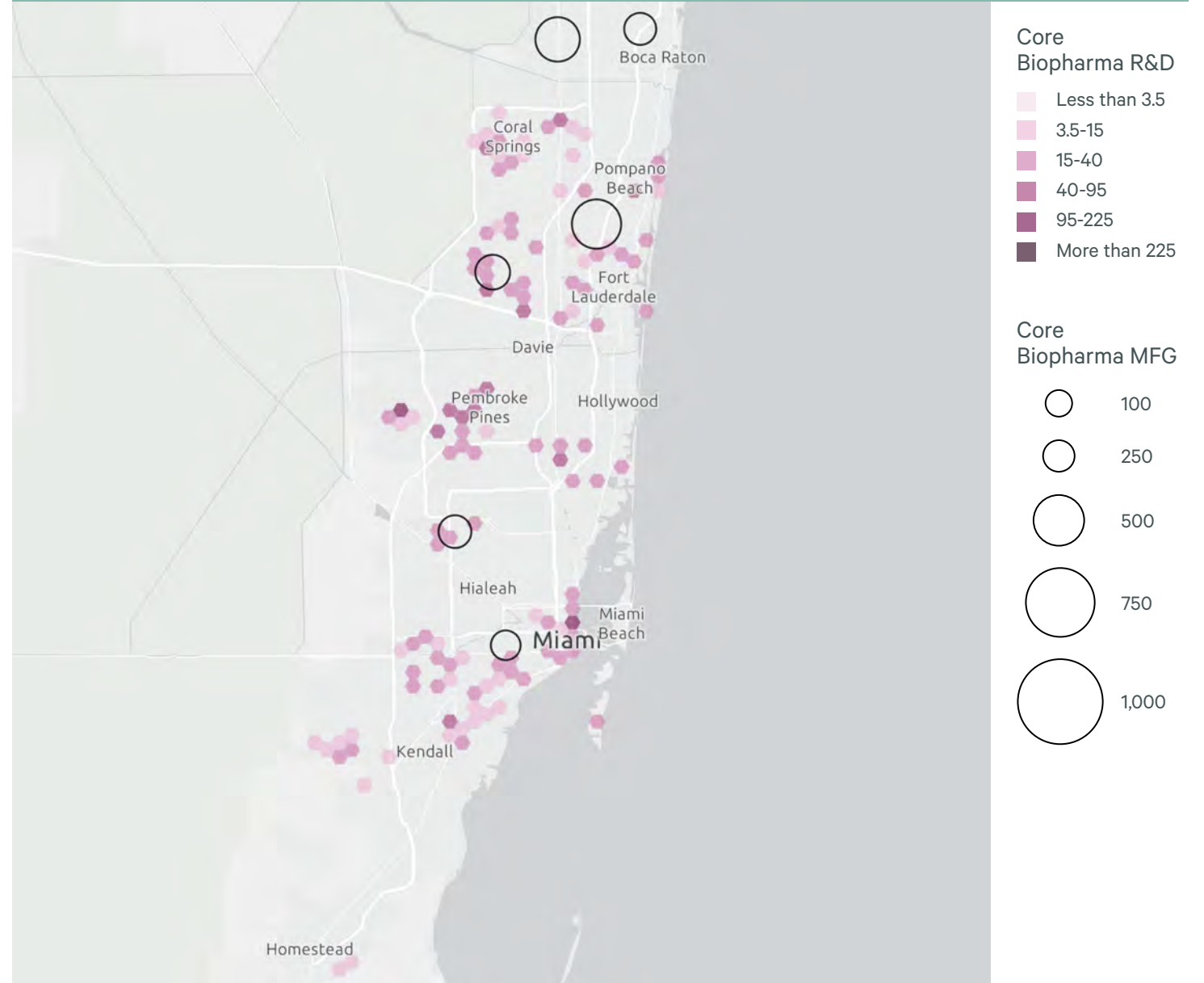


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
Florida International University	1,072	35	22	1,129
University of Miami	388	253	49	690
Florida Atlantic University	491	86	7	584
Nova Southeastern University	368	126	5	499
Barry University	65	133	-	198

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 19 Milwaukee

## Medtech

Rank  
**15**

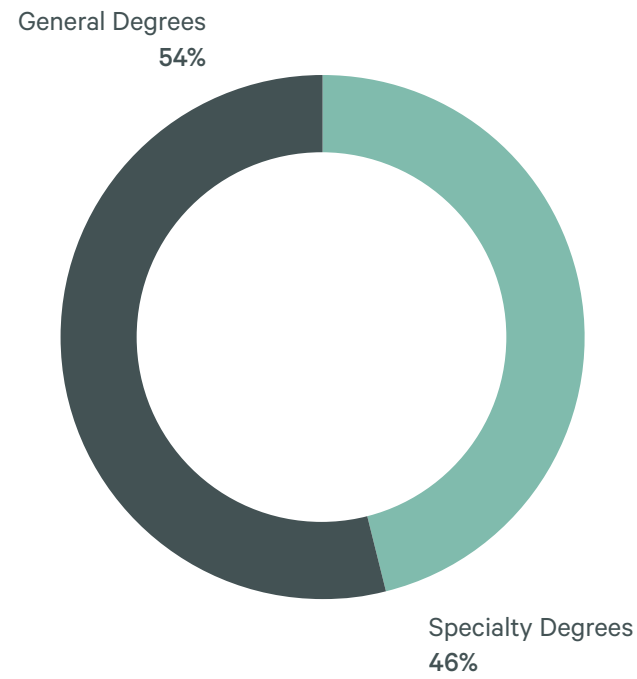
Score  
**102.0**

EMPLOYMENT (2023)	
<b>Total Occupations - All Occupations: 814,950</b>	
<b>Total Occupations - Medtech</b>	<b>19,440</b>
Bioengineers and Biomedical Engineers	140
Medical Appliance Technicians	-
Industrial Engineers	3,520
Industrial Engineering Technologists and Technicians	830
Architectural and Engineering Managers	1,430
Electrical and Electronic Engineering Technologists and Technicians	610
Computer Numerically Controlled Tool Operators	4,950
Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	4,100
Machinists	3,860

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

**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	909
5-Year Growth	17.0%
Degree Completions (Biological & Biomedical Sciences)	
Total	910
Certificates less than 4 years*	1
Associate's Degrees	-
Bachelor's Degree	832
Master's Degree	37
Doctorate	40

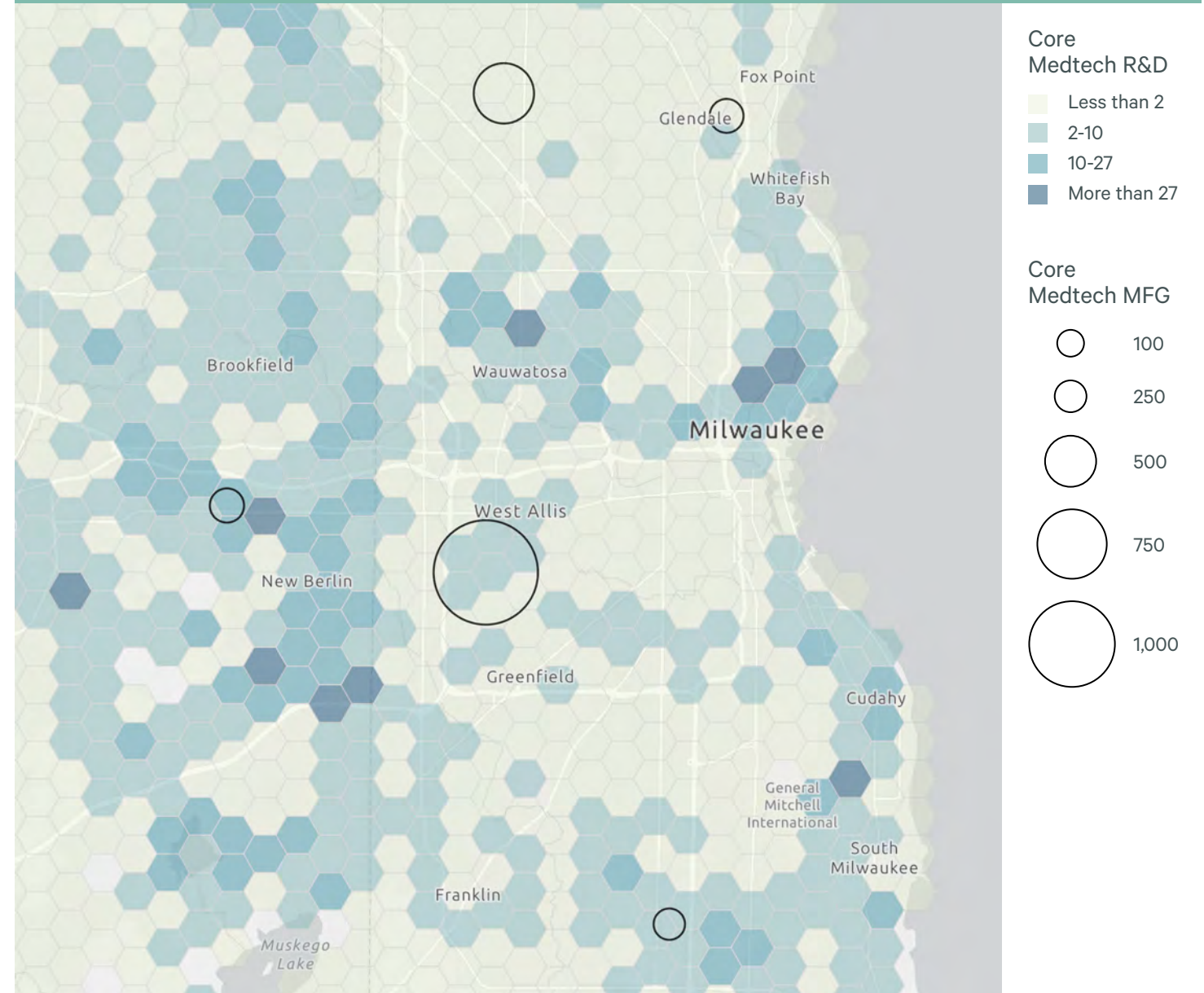


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
Marquette University	436	7	6	449
University of Wisconsin - Milwaukee	181	9	9	199
Carroll University	67	9	-	76
Concordia University - Wisconsin	53	3	-	56
Wisconsin Lutheran College	37	-	-	37

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 20 Minneapolis-St. Paul

## BioPharma R&D

Rank **12** Score **105.8**

## BioPharma MFG

Rank **19** Score **102.4**

## Medtech

Rank **2** Score **148.7**

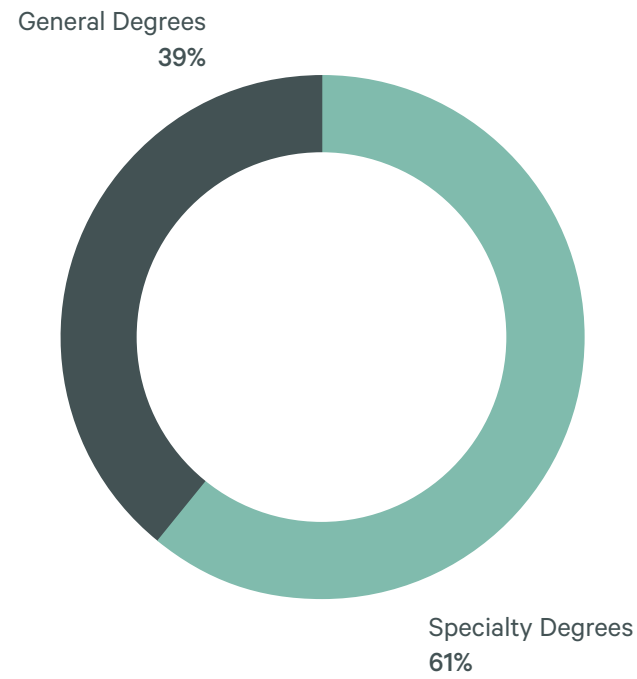
EMPLOYMENT (2023)								
Total Occupations - All Occupations: 1,911,030								
Total Occupations - BioPharma R&D		11,870	Total Occupations - BioPharma MFG		18,720	Total Occupations - Medtech		38,460
Bioengineers and Biomedical Engineers	1,010	Biological Technicians	760	Bioengineers and Biomedical Engineers	1,010			
Biochemists and Biophysicists	410	Chemical Technicians	820	Medical Appliance Technicians	70			
Biological Scientists, All Other	520	Chemical Equipment Operators and Tenders	940	Industrial Engineers	14,750			
Life Scientists, All Other	-	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	720	Industrial Engineering Technologists and Technicians	3,920			
Biological Technicians	760	Mixing and Blending Machine Setters, Operators and Tenders	880	Architectural and Engineering Managers	3,360			
Data Scientists	1,940	Packaging and Filling Machine Operators and Tenders	3,820	Electrical and Electronic Engineering Technologists and Technicians	1,250			
Microbiologists	510	Industrial Production Managers	3,740	Computer Numerically Controlled Tool Operators	2,800			
Epidemiologists	270	Inspectors, Testers, Sorters, Samplers and Weighers	7,040	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	3,450			
Chemists	1,710			Machinists	7,850			
Medical Scientists, Except Epidemiologists	4,740							

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



**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	1,951
5-Year Growth	-6.7%
Degree Completions (Biological & Biomedical Sciences)	
Total	2,000
Certificates less than 4 years	-
Associate's Degrees	49
Bachelor's Degree	1,611
Master's Degree	197
Doctorate	143

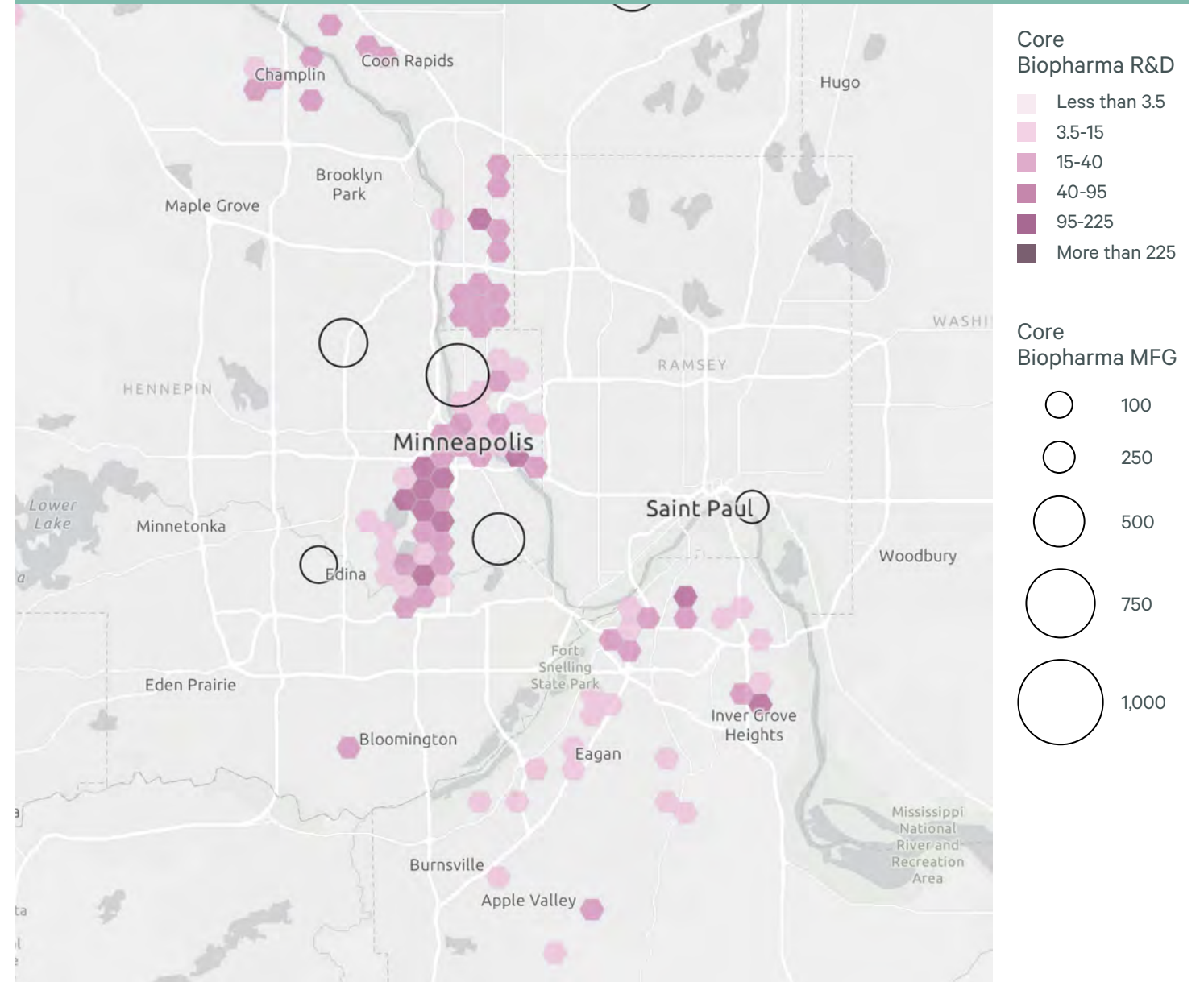


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
University of Minnesota - Twin Cities	1,060	197	143	1,400
University of St Thomas	143	-	-	143
University of Wisconsin - River Falls	101	-	-	101
Macalester College	71	-	-	71
Bethel University	60	-	-	60

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 21 New Haven, CT

## Medtech

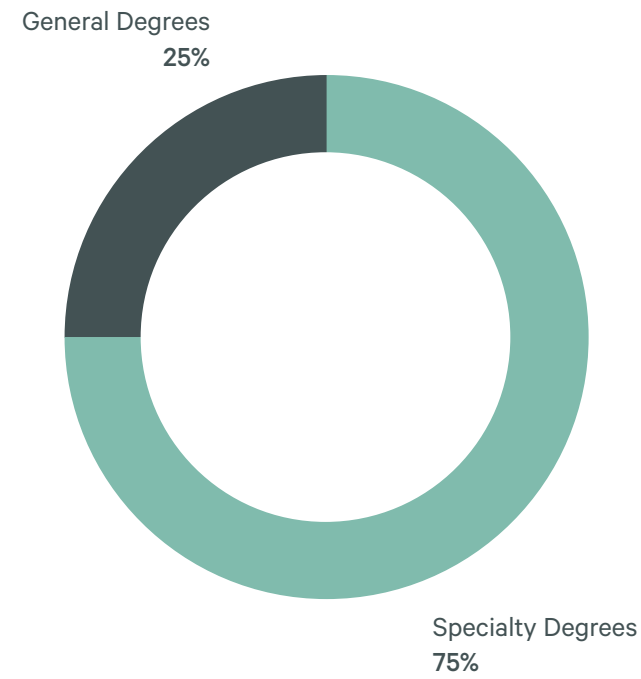
Rank **22**    Score **100.8**

EMPLOYMENT (2023)	
<b>Total Occupations - All Occupations: 290,380</b>	
<b>Total Occupations - Medtech</b>	<b>3,480</b>
Bioengineers and Biomedical Engineers	30
Medical Appliance Technicians	70
Industrial Engineers	950
Industrial Engineering Technologists and Technicians	150
Architectural and Engineering Managers	480
Electrical and Electronic Engineering Technologists and Technicians	290
Computer Numerically Controlled Tool Operators	330
Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	540
Machinists	640

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

**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	897
5-Year Growth	19.8%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>904</b>
Certificates less than 4 years*	-
Associate's Degrees	7
Bachelor's Degree	421
Master's Degree	362
Doctorate	114

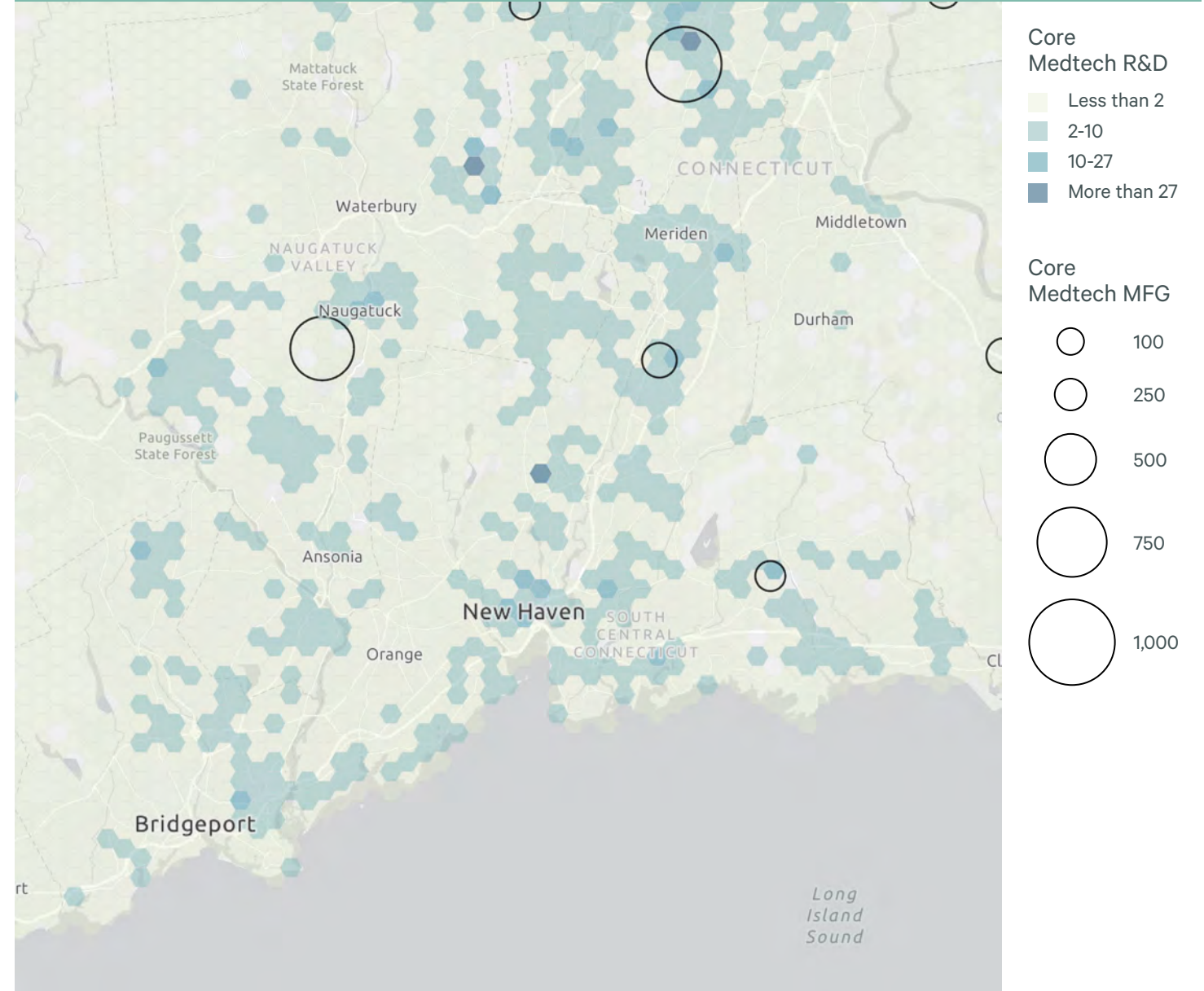


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
Yale University	210	258	114	582
Quinnipiac University	84	69	-	153
University of New Haven	51	31	-	82
Southern Connecticut State University	60	4	-	64
Post University	10	-	-	10

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 22 New York-New Jersey

## BioPharma R&D

Rank **4** Score **124.0**

## BioPharma MFG

Rank **1** Score **114.6**

## Medtech

Rank **5** Score **117.1**

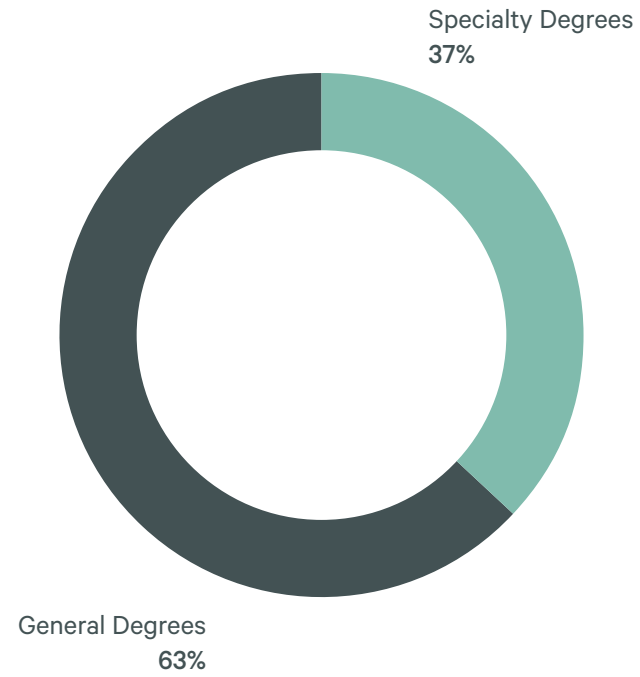
EMPLOYMENT (2023)								
Total Occupations - All Occupations: 9,495,240								
Total Occupations - BioPharma R&D		43,290	Total Occupations - BioPharma MFG		57,650	Total Occupations - Medtech		37,960
Bioengineers and Biomedical Engineers	820	Biological Technicians	3,150	Bioengineers and Biomedical Engineers	820			
Biochemists and Biophysicists	2,040	Chemical Technicians	3,380	Medical Appliance Technicians	440			
Biological Scientists, All Other	1,630	Chemical Equipment Operators and Tenders	8,170	Industrial Engineers	8,630			
Life Scientists, All Other	190	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	850	Industrial Engineering Technologists and Technicians	1,280			
Biological Technicians	3,150	Mixing and Blending Machine Setters, Operators and Tenders	2,910	Architectural and Engineering Managers	7,390			
Data Scientists	16,330	Packaging and Filling Machine Operators and Tenders	14,630	Electrical and Electronic Engineering Technologists and Technicians	2,560			
Microbiologists	2,050	Industrial Production Managers	6,920	Computer Numerically Controlled Tool Operators	3,260			
Epidemiologists	390	Inspectors, Testers, Sorters, Samplers and Weighers	17,640	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	8,860			
Chemists	7,860			Machinists	4,720			
Medical Scientists, Except Epidemiologists	8,830							

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



**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	10,032
5-Year Growth	26.0%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>10,246</b>
Certificates less than 4 years	-
Associate's Degrees	214
Bachelor's Degree	6,999
Master's Degree	2,378
Doctorate	655

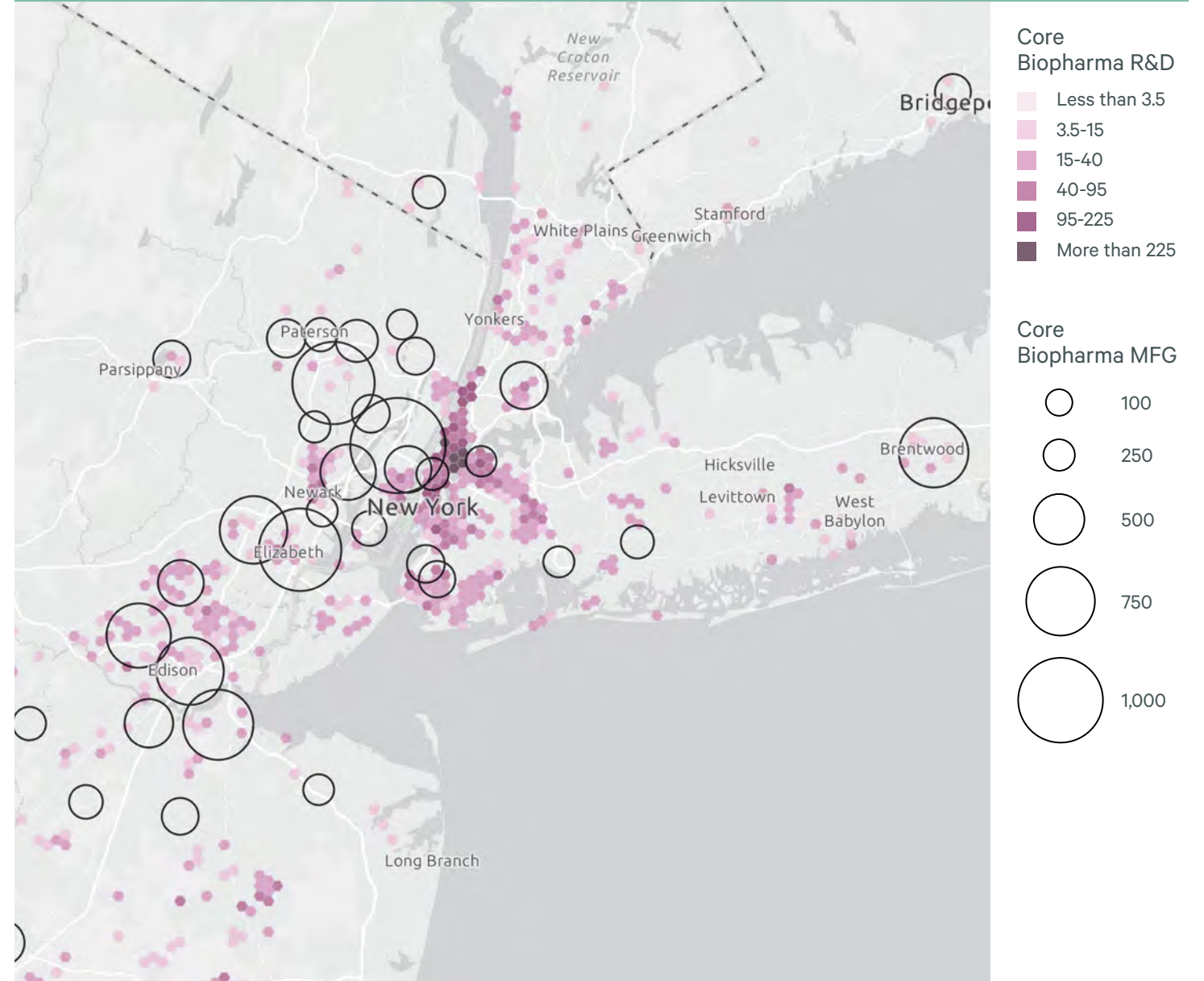


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
Rutgers University - New Brunswick	886	396	74	1,356
Stony Brook University	795	83	53	931
New York University	238	588	80	906
Columbia University in the City of New York	219	473	123	815
St. John's University - New York	305	26	20	351

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 23 Philadelphia

## BioPharma R&D

Rank **8**      Score **112.2**

## BioPharma MFG

Rank **7**      Score **107.7**

## Medtech

Rank **9**      Score **105.1**

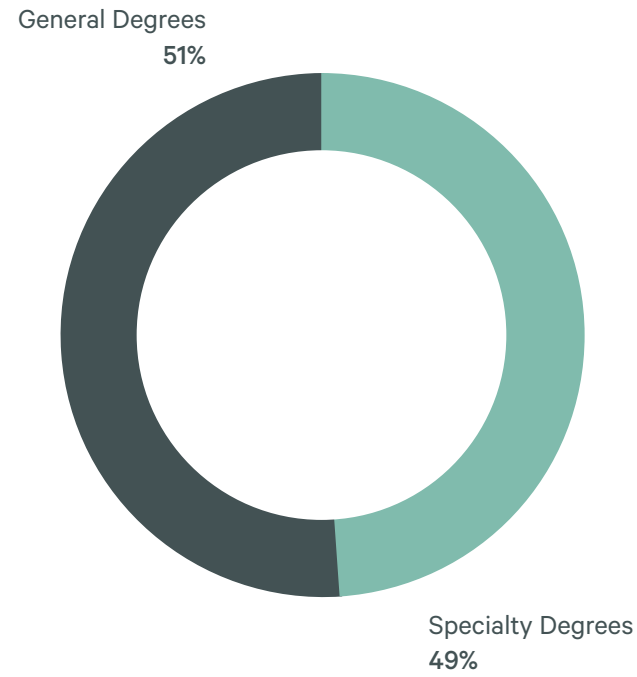
EMPLOYMENT (2023)								
Total Occupations - All Occupations: 2,829,560								
Total Occupations - BioPharma R&D		18,920	Total Occupations - BioPharma MFG		28,800	Total Occupations - Medtech		23,620
Bioengineers and Biomedical Engineers	440	Biological Technicians	2,180	Bioengineers and Biomedical Engineers	440			
Biochemists and Biophysicists	2,420	Chemical Technicians	1,620	Medical Appliance Technicians	270			
Biological Scientists, All Other	1,100	Chemical Equipment Operators and Tenders	3,790	Industrial Engineers	6,090			
Life Scientists, All Other	80	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	500	Industrial Engineering Technologists and Technicians	840			
Biological Technicians	2,180	Mixing and Blending Machine Setters, Operators and Tenders	1,530	Architectural and Engineering Managers	4,880			
Data Scientists	4,240	Packaging and Filling Machine Operators and Tenders	6,820	Electrical and Electronic Engineering Technologists and Technicians	1,040			
Microbiologists	720	Industrial Production Managers	3,870	Computer Numerically Controlled Tool Operators	2,500			
Epidemiologists	150	Inspectors, Testers, Sorters, Samplers and Weighers	8,490	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	3,970			
Chemists	4,350			Machinists	3,590			
Medical Scientists, Except Epidemiologists	3,240							

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



**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	4,160
5-Year Growth	10.3%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>4,278</b>
Certificates less than 4 years	37
Associate's Degrees	81
Bachelor's Degree	3,050
Master's Degree	772
Doctorate	338

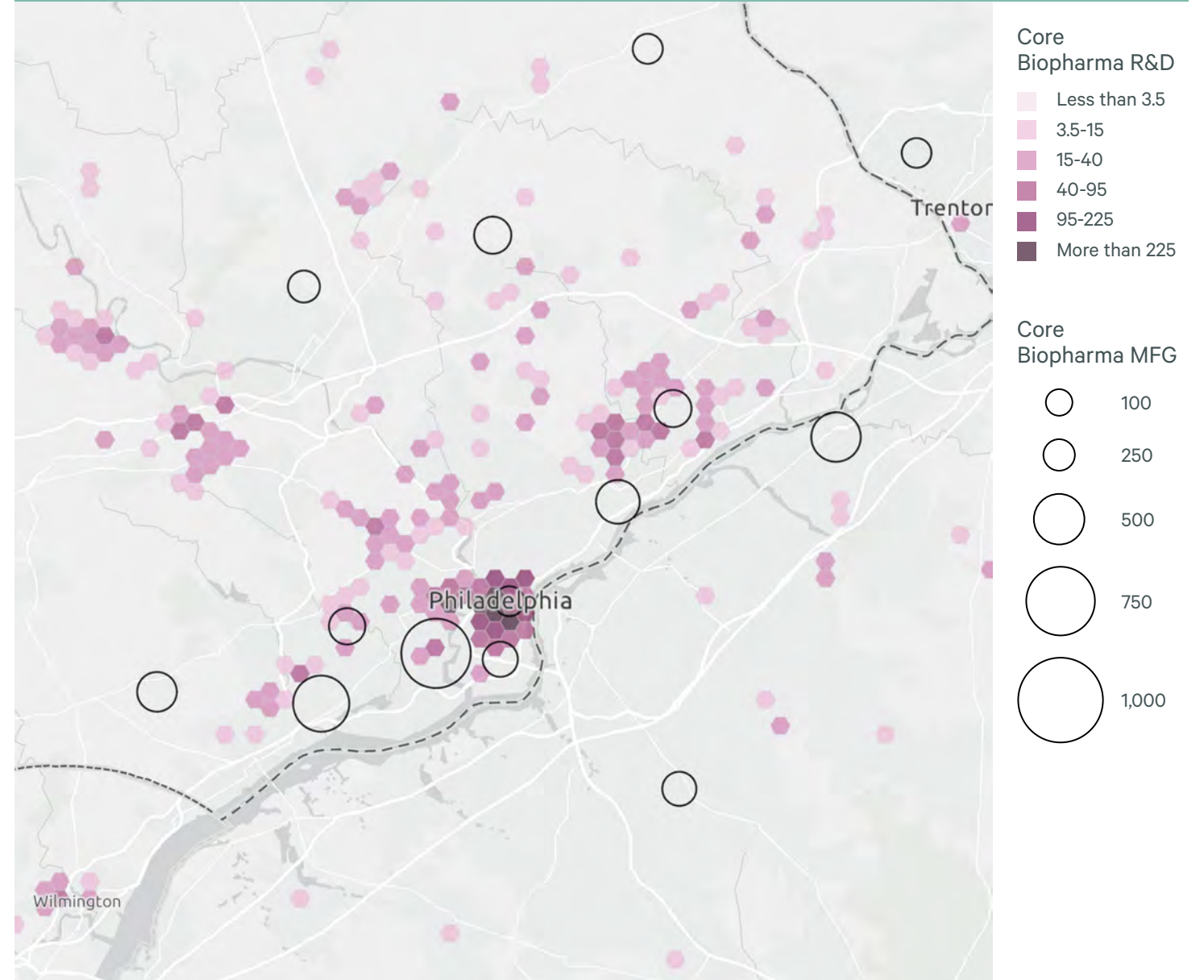


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
University of Pennsylvania	394	153	163	710
Temple University	455	120	38	613
Drexel University	267	295	45	607
University of Delaware	425	44	36	505
Rowan University	407	19	8	434

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 24 Phoenix

## BioPharma R&D

Rank **23**    Score **101.1**

## Medtech

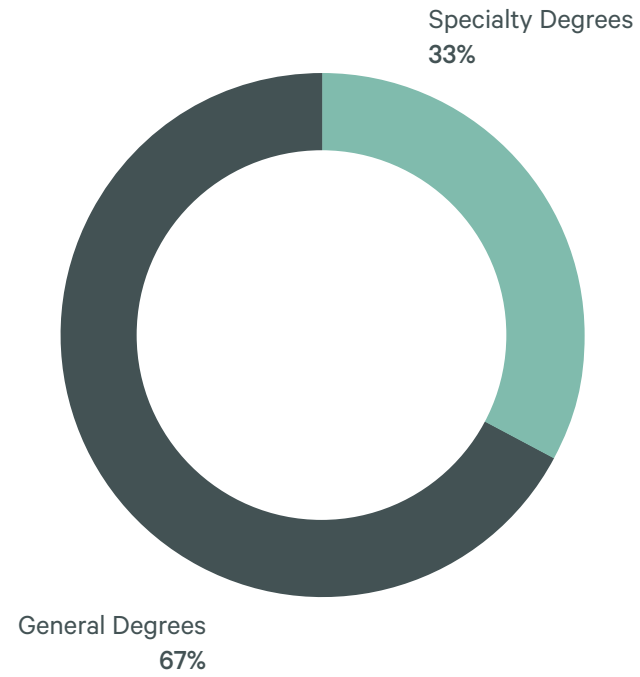
Rank **25**    Score **100.0**

EMPLOYMENT (2023)					
Total Occupations - All Occupations: 2,289,130					
Total Occupations - BioPharma R&D		6,180	Total Occupations - Medtech		22,400
Bioengineers and Biomedical Engineers	270		Bioengineers and Biomedical Engineers	270	
Biochemists and Biophysicists	-		Medical Appliance Technicians	290	
Biological Scientists, All Other	240		Industrial Engineers	5,440	
Life Scientists, All Other	130		Industrial Engineering Technologists and Technicians	1,720	
Biological Technicians	740		Architectural and Engineering Managers	3,130	
Data Scientists	2,990		Electrical and Electronic Engineering Technologists and Technicians	2,100	
Microbiologists	100		Computer Numerically Controlled Tool Operators	1,270	
Epidemiologists	220		Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	4,350	
Chemists	540		Machinists	3,830	
Medical Scientists, Except Epidemiologists	950				

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

**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	2,552
5-Year Growth	75.3%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>2,617</b>
Certificates less than 4 years	10
Associate's Degrees	55
Bachelor's Degree	2,166
Master's Degree	322
Doctorate	64

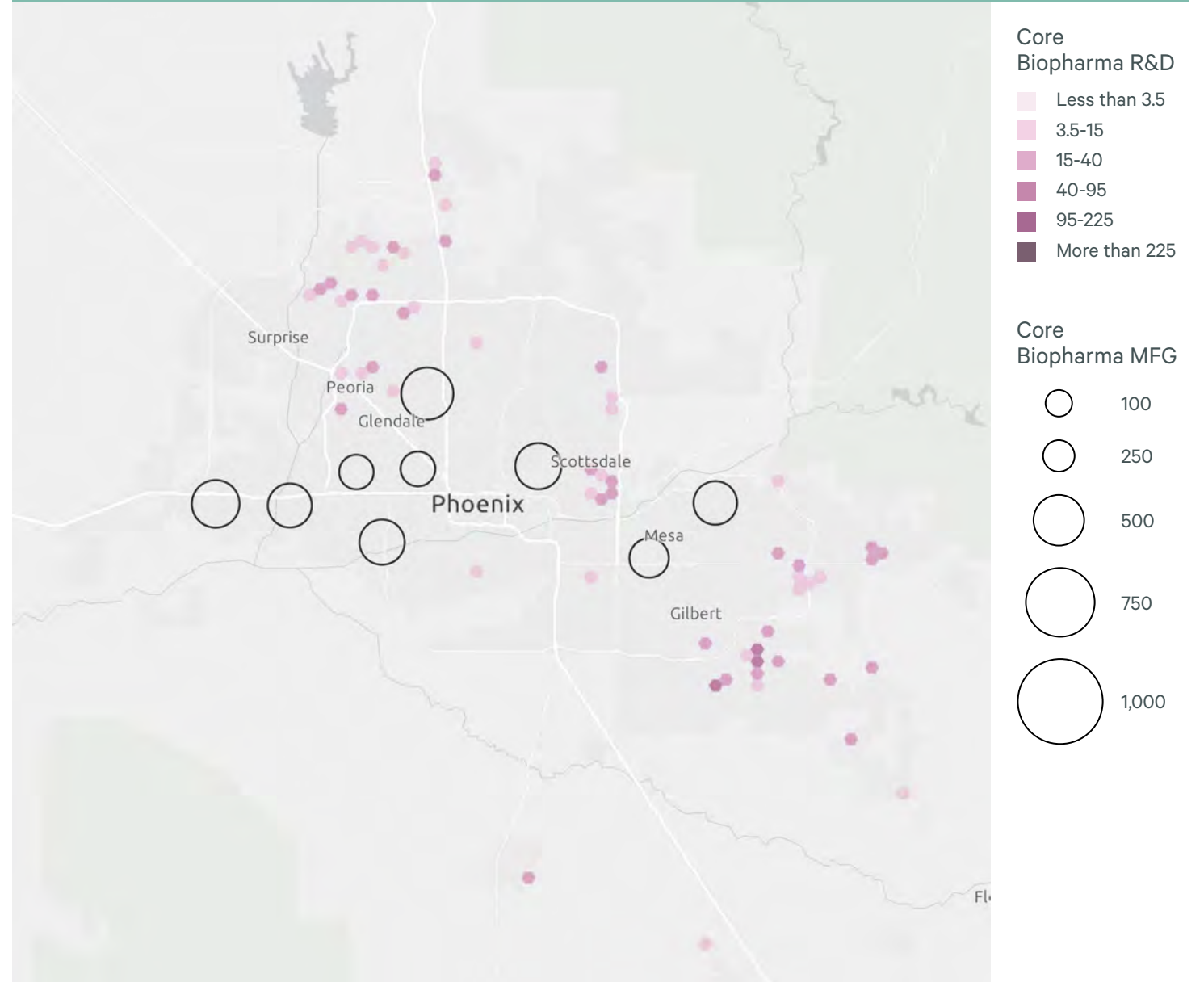


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
Arizona State University	1,878	226	64	2,168
Grand Canyon University	269	-	-	269
Midwestern University - Glendale	-	96	-	96
Arizona Christian University	11	-	-	11
Ottawa University - Surprise	6	-	-	6

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 25 Pittsburgh

## BioPharma R&D

Rank **22**    Score **101.3**

## Medtech

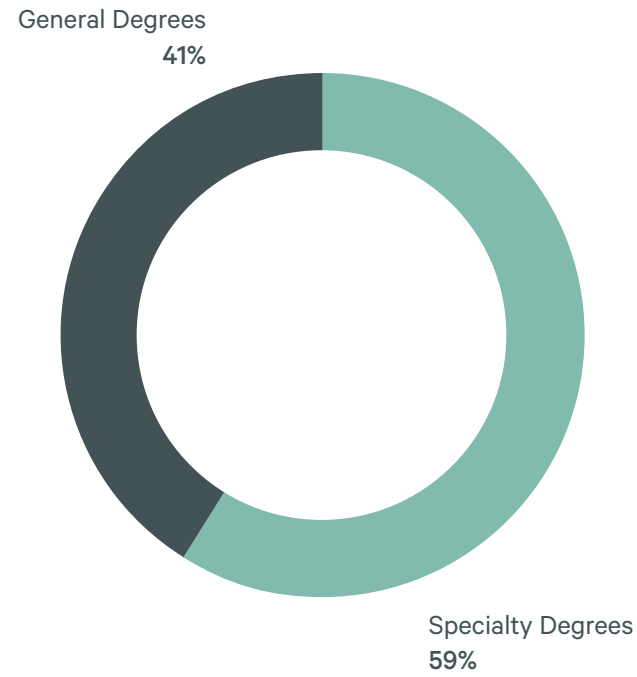
Rank **12**    Score **103.9**

EMPLOYMENT (2023)					
Total Occupations - All Occupations: 1,071,900					
Total Occupations - BioPharma R&D		3,360	Total Occupations - Medtech		14,190
Bioengineers and Biomedical Engineers	150		Bioengineers and Biomedical Engineers	150	
Biochemists and Biophysicists	-		Medical Appliance Technicians	160	
Biological Scientists, All Other	340		Industrial Engineers	2,250	
Life Scientists, All Other	60		Industrial Engineering Technologists and Technicians	350	
Biological Technicians	590		Architectural and Engineering Managers	1,930	
Data Scientists	1,370		Electrical and Electronic Engineering Technologists and Technicians	610	
Microbiologists	140		Computer Numerically Controlled Tool Operators	2,650	
Epidemiologists	50		Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	3,510	
Chemists	-		Machinists	2,580	
Medical Scientists, Except Epidemiologists	660				

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

**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	2,046
5-Year Growth	17.2%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>2,065</b>
Certificates less than 4 years	2
Associate's Degrees	18
Bachelor's Degree	1,506
Master's Degree	377
Doctorate	162

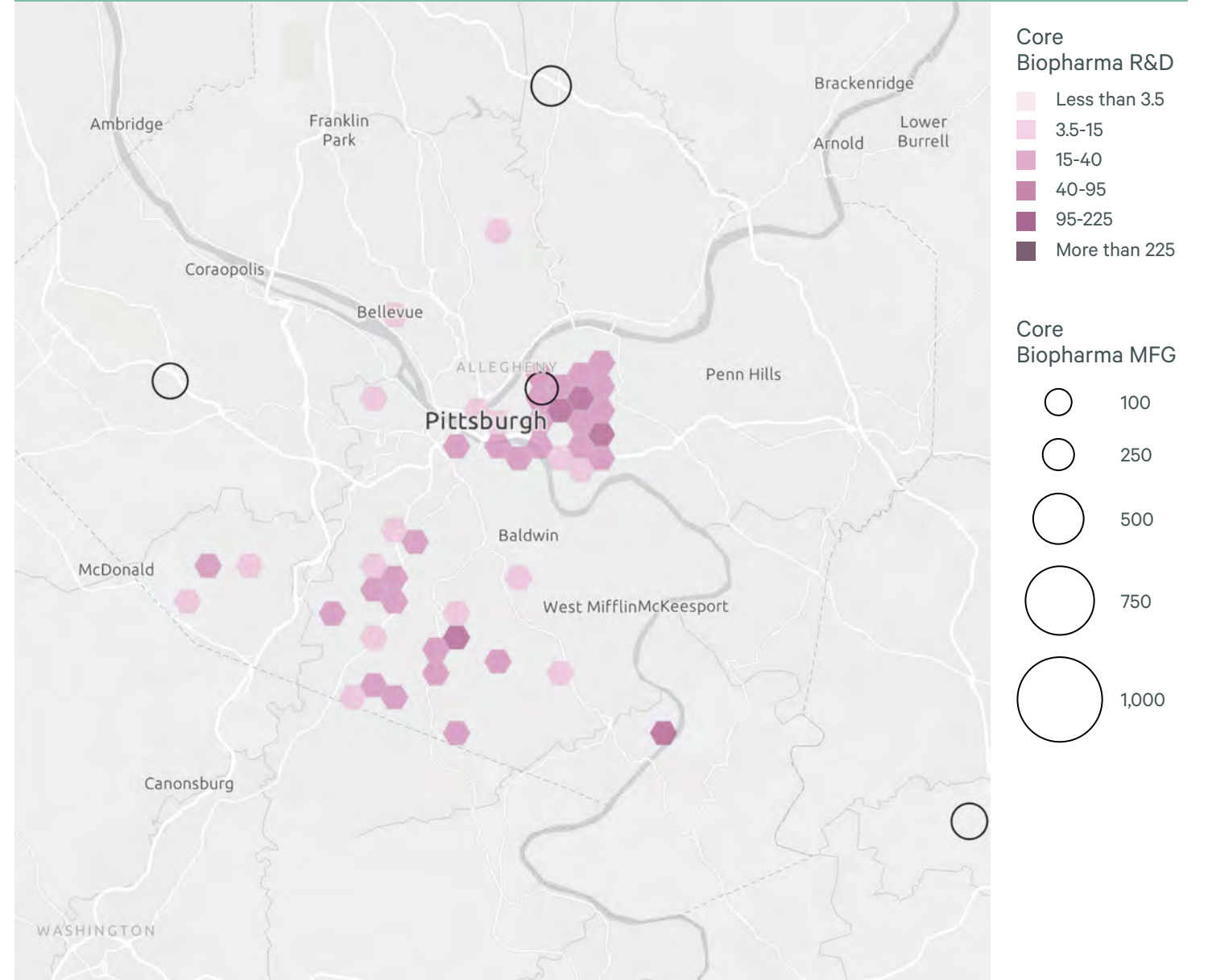


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
University of Pittsburgh - Pittsburgh Campus	799	245	123	1,167
Carnegie Mellon University	133	82	27	242
Duquesne University	166	18	12	196
Pennsylvania Western University	84	-	-	84
Chatham University	32	32	-	64

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 26 Portland, OR

## BioPharma R&D

Rank **24**    Score **101.1**

## BioPharma MFG

Rank **18**    Score **102.8**

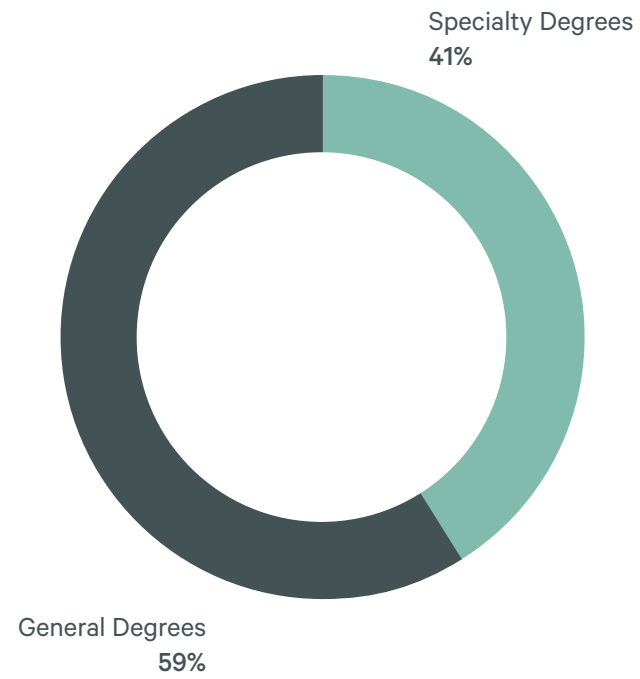
EMPLOYMENT (2023)					
Total Occupations - All Occupations: 1,206,150					
Total Occupations - BioPharma R&D		6,240	Total Occupations - BioPharma MFG		12,920
Bioengineers and Biomedical Engineers	80	Biological Technicians			1,610
Biochemists and Biophysicists	100	Chemical Technicians			240
Biological Scientists, All Other	250	Chemical Equipment Operators and Tenders			540
Life Scientists, All Other	160	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators and Tenders			720
Biological Technicians	1,610	Mixing and Blending Machine Setters, Operators and Tenders			730
Data Scientists	2,060	Packaging and Filling Machine Operators and Tenders			3,360
Microbiologists	70	Industrial Production Managers			1,870
Epidemiologists	110	Inspectors, Testers, Sorters, Samplers and Weighers			3,850
Chemists	440				
Medical Scientists, Except Epidemiologists	1,360				

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



**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	743
5-Year Growth	10.1%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>861</b>
Certificates less than 4 years	32
Associate's Degrees	86
Bachelor's Degree	620
Master's Degree	61
Doctorate	62

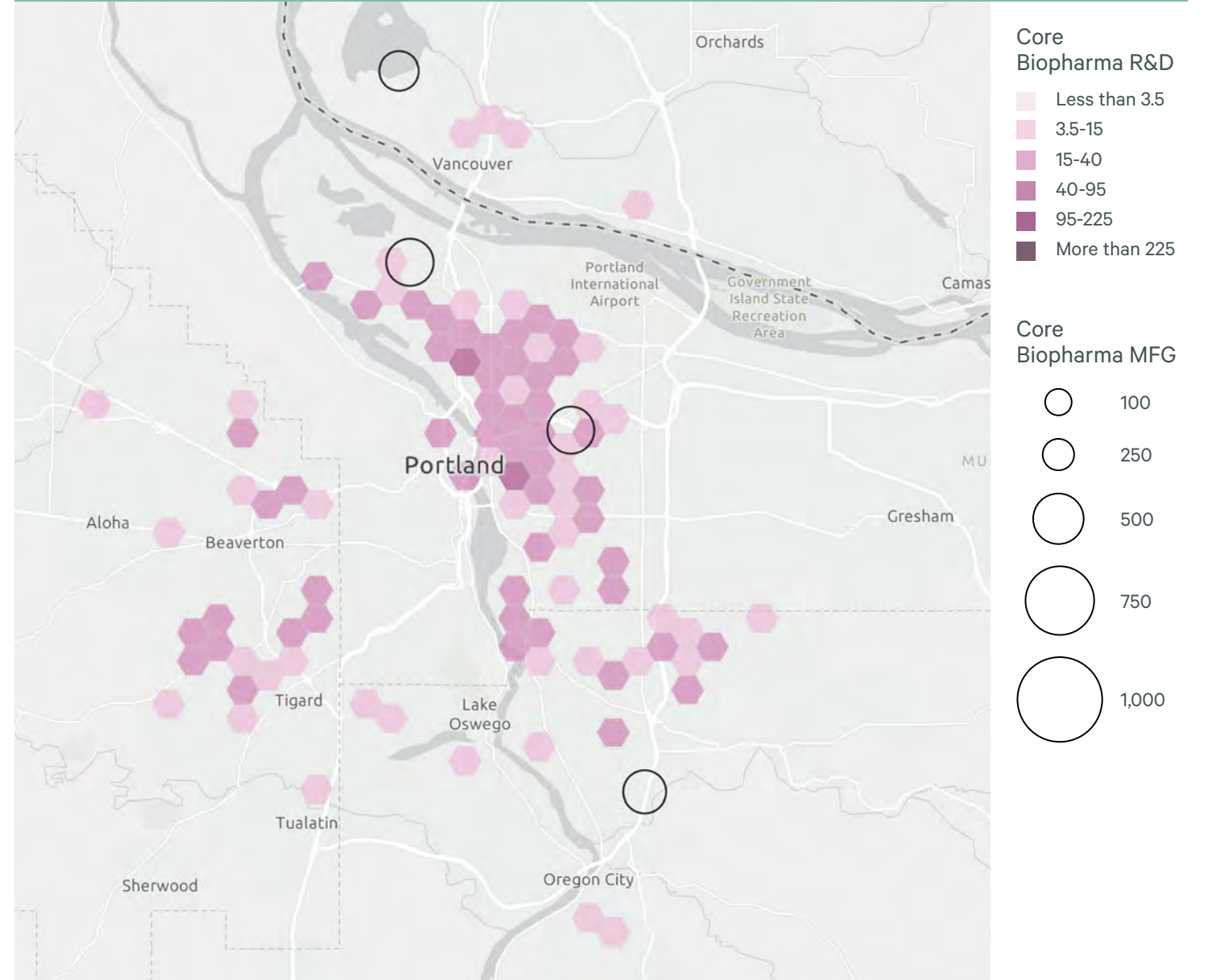


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
Portland State University	202	13	8	223
University of Portland	98	10	-	108
University of Western States	91	-	-	91
Oregon Health & Science University	-	31	53	84
Lewis & Clark College	64	-	-	64

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 27 Providence, RI

## Medtech

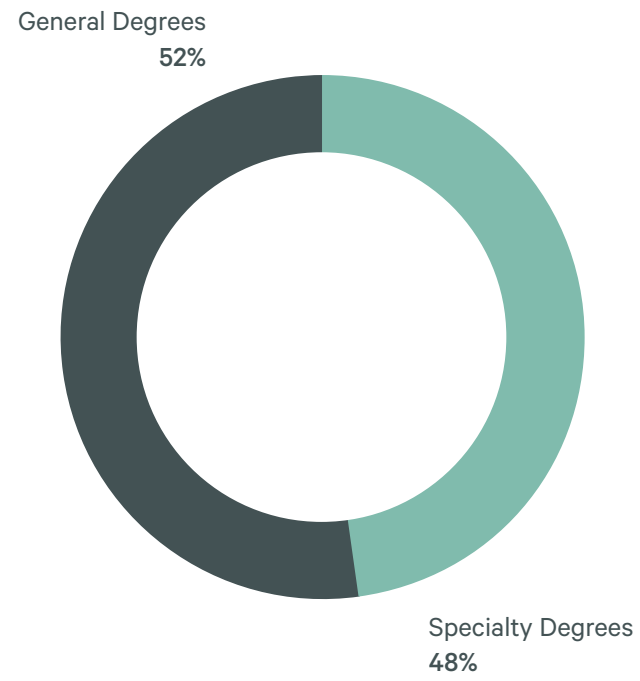
Rank **23**    Score **100.8**

EMPLOYMENT (2023)	
<b>Total Occupations - All Occupations: 290,380</b>	
<b>Total Occupations - Medtech</b>	<b>5,330</b>
Bioengineers and Biomedical Engineers	90
Medical Appliance Technicians	140
Industrial Engineers	1,220
Industrial Engineering Technologists and Technicians	200
Architectural and Engineering Managers	400
Electrical and Electronic Engineering Technologists and Technicians	370
Computer Numerically Controlled Tool Operators	500
Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	1,310
Machinists	1,100

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

**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	1,276
5-Year Growth	15.2%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>1,398</b>
Certificates less than 4 years*	84
Associate's Degrees	38
Bachelor's Degree	1,045
Master's Degree	149
Doctorate	82

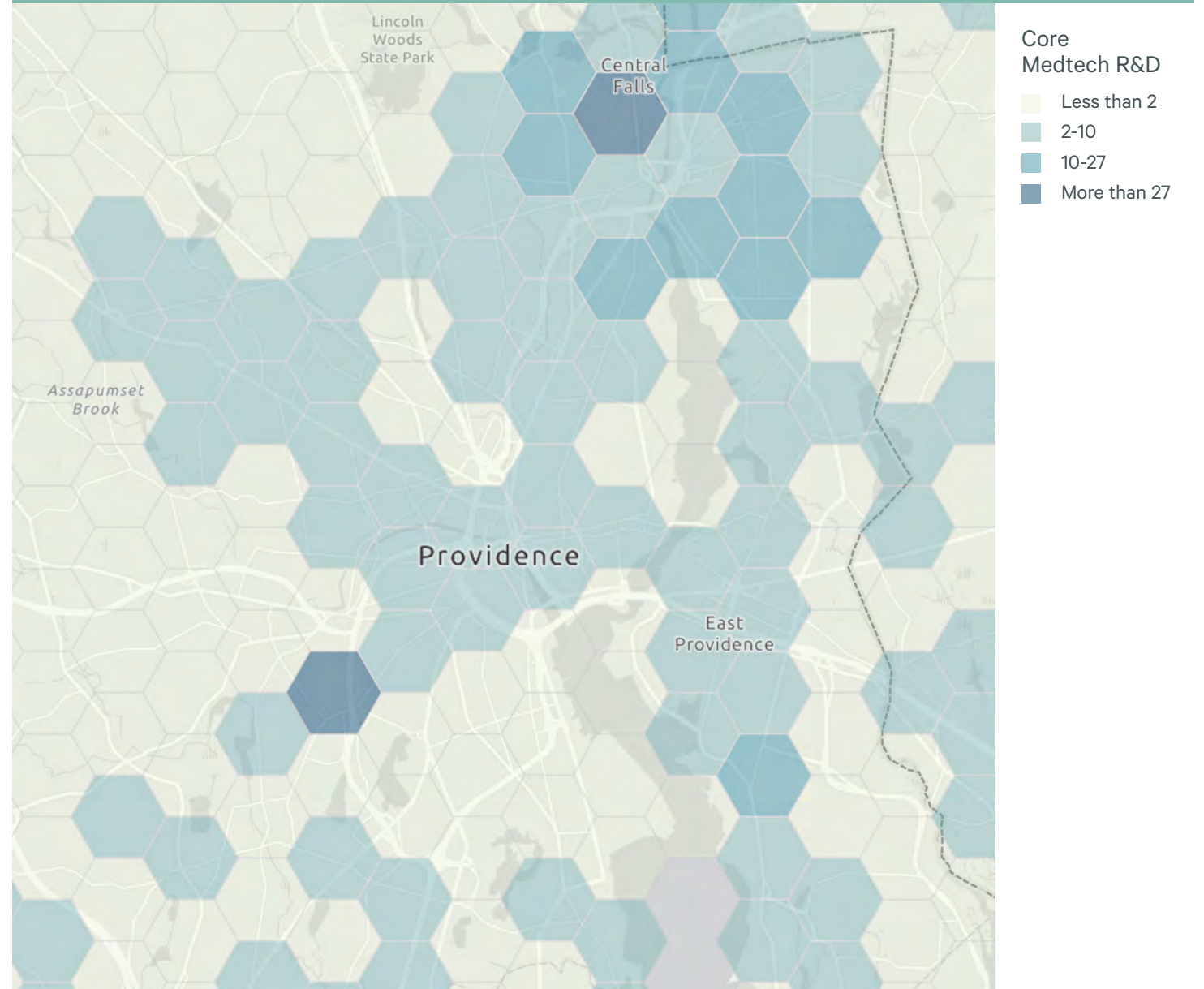


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
Brown University	225	131	73	429
University of Rhode Island	315	11	9	335
University of Massachusetts - Dartmouth	111	5	-	116
Providence College	107	-	-	107
Roger Williams University	79	-	-	79

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 28 Raleigh-Durham

## BioPharma R&D

Rank **6**      Score **116.4**

## BioPharma MFG

Rank **15**      Score **103.0**

## Medtech

Rank **10**      Score **104.6**

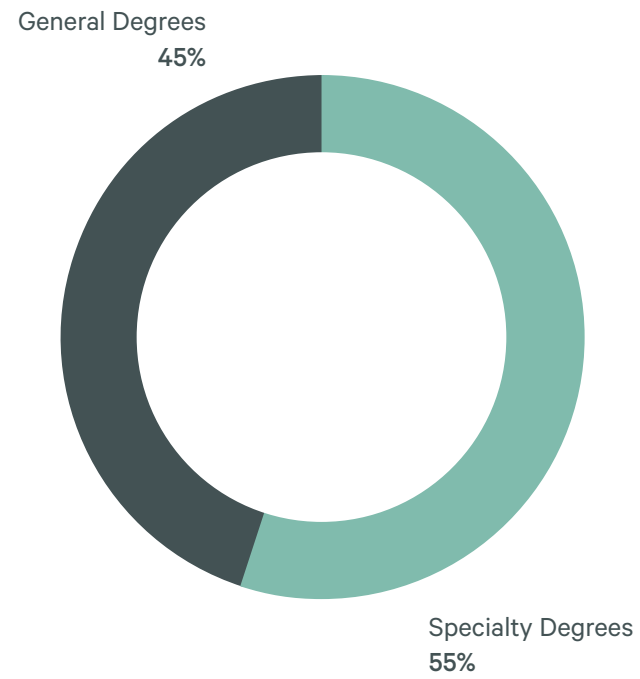
EMPLOYMENT (2023)								
Total Occupations - All Occupations: 1,038,680								
Total Occupations - BioPharma R&D		13,230	Total Occupations - BioPharma MFG		9,140	Total Occupations - Medtech		8,180
Bioengineers and Biomedical Engineers	440	Biological Technicians	1,870	Bioengineers and Biomedical Engineers	440			
Biochemists and Biophysicists	330	Chemical Technicians	450	Medical Appliance Technicians	30			
Biological Scientists, All Other	2,670	Chemical Equipment Operators and Tenders	870	Industrial Engineers	2,320			
Life Scientists, All Other	580	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	240	Industrial Engineering Technologists and Technicians	440			
Biological Technicians	1,870	Mixing and Blending Machine Setters, Operators and Tenders	410	Architectural and Engineering Managers	2,150			
Data Scientists	2,050	Packaging and Filling Machine Operators and Tenders	1,520	Electrical and Electronic Engineering Technologists and Technicians	580			
Microbiologists	540	Industrial Production Managers	1,400	Computer Numerically Controlled Tool Operators	280			
Epidemiologists	60	Inspectors, Testers, Sorters, Samplers and Weighers	2,380	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	1,180			
Chemists	2,380			Machinists	760			
Medical Scientists, Except Epidemiologists	2,310							

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



**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	2,970
5-Year Growth	14.1%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>2,995</b>
Certificates less than 4 years	12
Associate's Degrees	13
Bachelor's Degree	2,107
Master's Degree	492
Doctorate	371

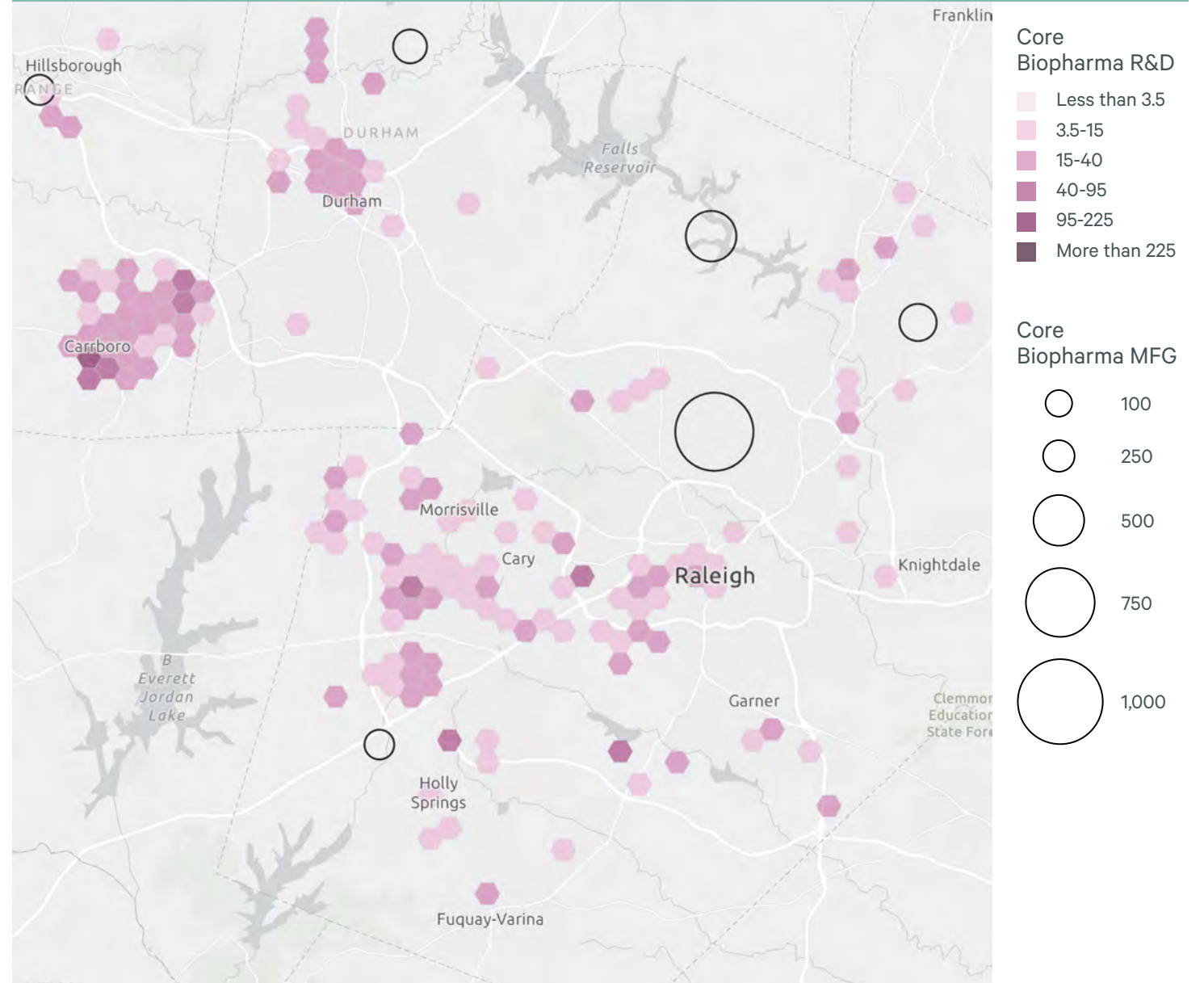


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
University of North Carolina at Chapel Hill	866	78	166	1,110
North Carolina State University at Raleigh	766	161	60	987
Duke University	348	239	145	732
North Carolina Central University	48	14	-	62
Meredith College	50	-	-	50

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 29 Sacramento

## BioPharma R&D

Rank **20**    Score **101.7**

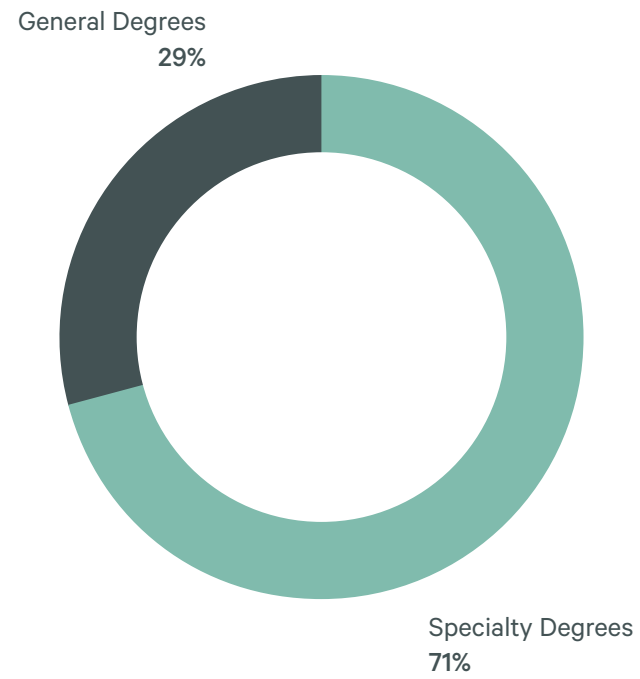
EMPLOYMENT (2023)	
<b>Total Occupations - All Occupations: 1,048,170</b>	
<b>Total Occupations - BioPharma R&amp;D</b>	<b>5,670</b>
Bioengineers and Biomedical Engineers	80
Biochemists and Biophysicists	120
Biological Scientists, All Other	750
Life Scientists, All Other	50
Biological Technicians	470
Data Scientists	2,420
Microbiologists	120
Epidemiologists	220
Chemists	330
Medical Scientists, Except Epidemiologists	1,110

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



**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	2,546
5-Year Growth	18.0%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>2,787</b>
Certificates less than 4 years*	2
Associate's Degrees	239
Bachelor's Degree	2,256
Master's Degree	116
Doctorate	174

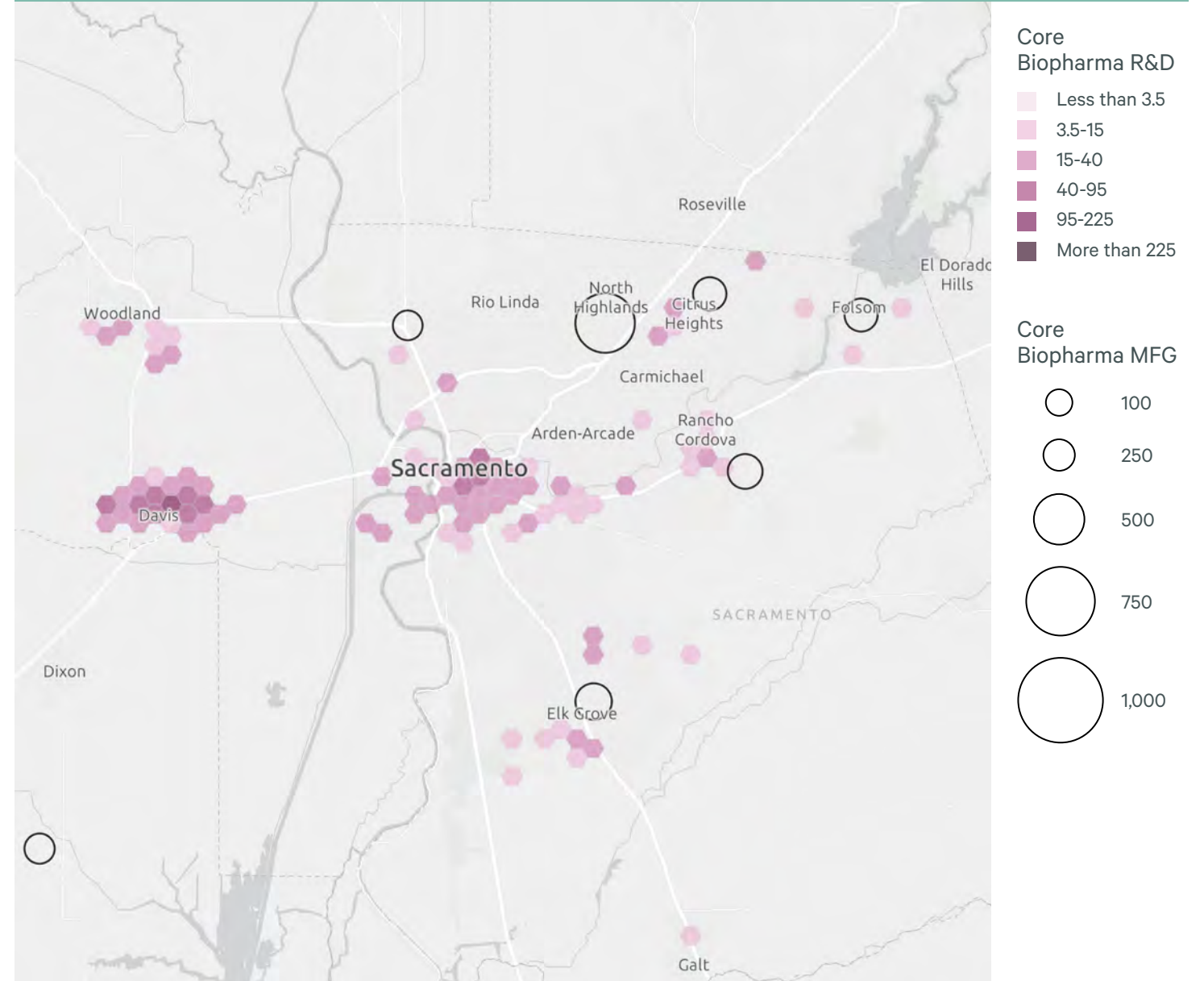


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
University of California - Davis	1,905	86	174	2,165
California State University - Sacramento	329	11	-	340
William Jessup University	22	-	-	22
California Northstate University	-	19	-	19

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 30 Salt Lake City

## BioPharma R&D

Rank **17**    Score **103.3**

## Medtech

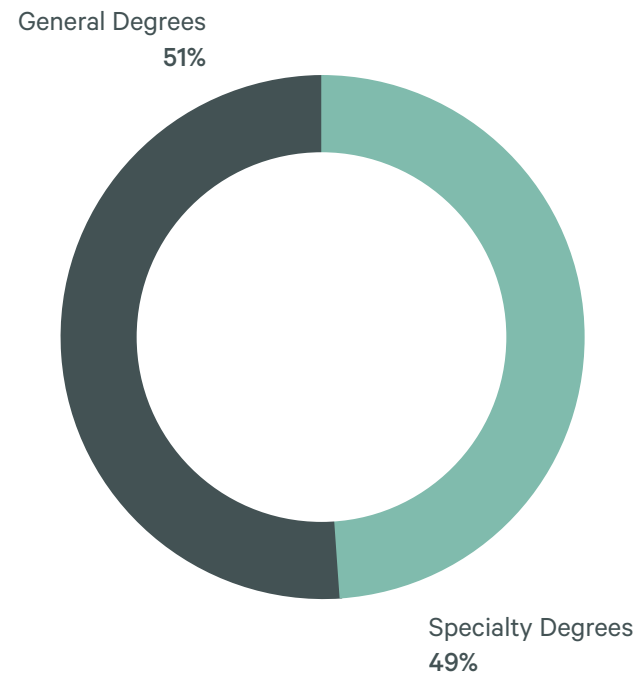
Rank **8**    Score **110.1**

EMPLOYMENT (2023)				
Total Occupations - All Occupations: 803,800				
Total Occupations - BioPharma R&D		5,790	Total Occupations - Medtech	8,480
Bioengineers and Biomedical Engineers	600	Bioengineers and Biomedical Engineers	600	
Biochemists and Biophysicists	280	Medical Appliance Technicians	160	
Biological Scientists, All Other	270	Industrial Engineers	2,300	
Life Scientists, All Other	-	Industrial Engineering Technologists and Technicians	480	
Biological Technicians	350	Architectural and Engineering Managers	1,240	
Data Scientists	2,100	Electrical and Electronic Engineering Technologists and Technicians	610	
Microbiologists	80	Computer Numerically Controlled Tool Operators	530	
Epidemiologists	160	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	1,360	
Chemists	540	Machinists	1,200	
Medical Scientists, Except Epidemiologists	1,410			

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

**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	514
5-Year Growth	25.7%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>536</b>
Certificates less than 4 years	-
Associate's Degrees	22
Bachelor's Degree	351
Master's Degree	70
Doctorate	93

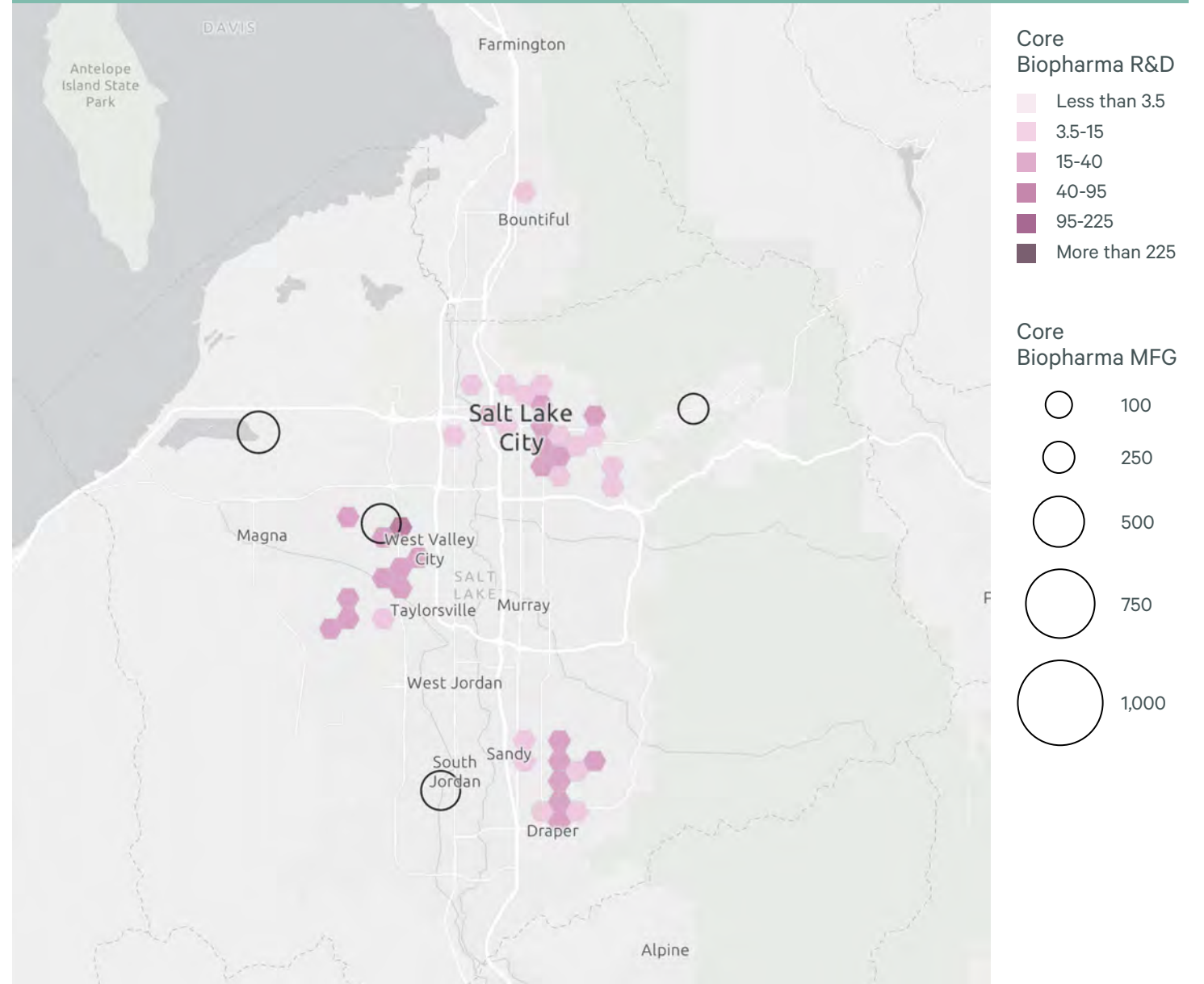


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
University of Utah	313	70	93	476
Westminster College	38	-	-	38

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 31 San Diego

## BioPharma R&D

Rank **7** Score **113.6**

## BioPharma MFG

Rank **8** Score **106.2**

## Medtech

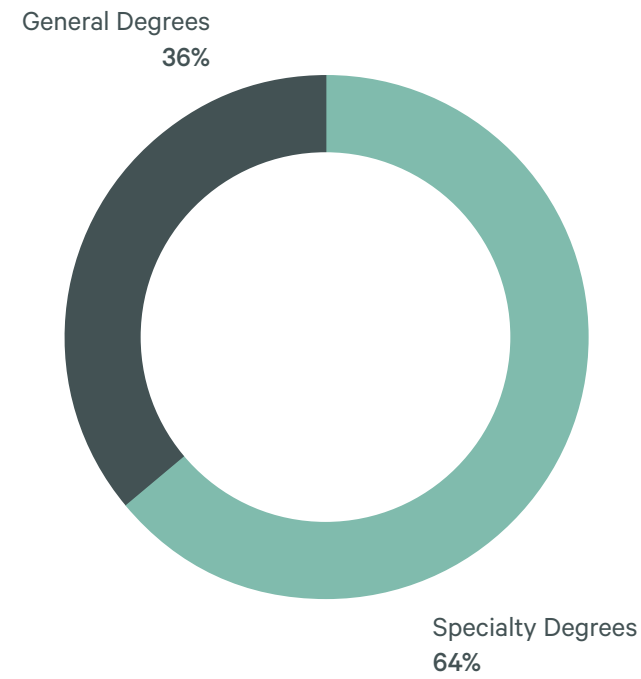
Rank **6** Score **113.5**

EMPLOYMENT (2023)								
Total Occupations - All Occupations: 1,522,620								
Total Occupations - BioPharma R&D		17,240	Total Occupations - BioPharma MFG		15,410	Total Occupations - Medtech		19,800
Bioengineers and Biomedical Engineers	510	Biological Technicians	2,700	Bioengineers and Biomedical Engineers	510			
Biochemists and Biophysicists	1,450	Chemical Technicians	920	Medical Appliance Technicians	470			
Biological Scientists, All Other	3,580	Chemical Equipment Operators and Tenders	540	Industrial Engineers	2,640			
Life Scientists, All Other	170	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	750	Industrial Engineering Technologists and Technicians	610			
Biological Technicians	2,700	Mixing and Blending Machine Setters, Operators and Tenders	500	Architectural and Engineering Managers	3,790			
Data Scientists	2,340	Packaging and Filling Machine Operators and Tenders	2,660	Electrical and Electronic Engineering Technologists and Technicians	2,550			
Microbiologists	600	Industrial Production Managers	2,130	Computer Numerically Controlled Tool Operators	1,480			
Epidemiologists	110	Inspectors, Testers, Sorters, Samplers and Weighers	5,210	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	5,790			
Chemists	1,600			Machinists	2,470			
Medical Scientists, Except Epidemiologists	4,180							

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

**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	3,236
5-Year Growth	6.1%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>3,862</b>
Certificates less than 4 years	20
Associate's Degrees	606
Bachelor's Degree	2,613
Master's Degree	446
Doctorate	177

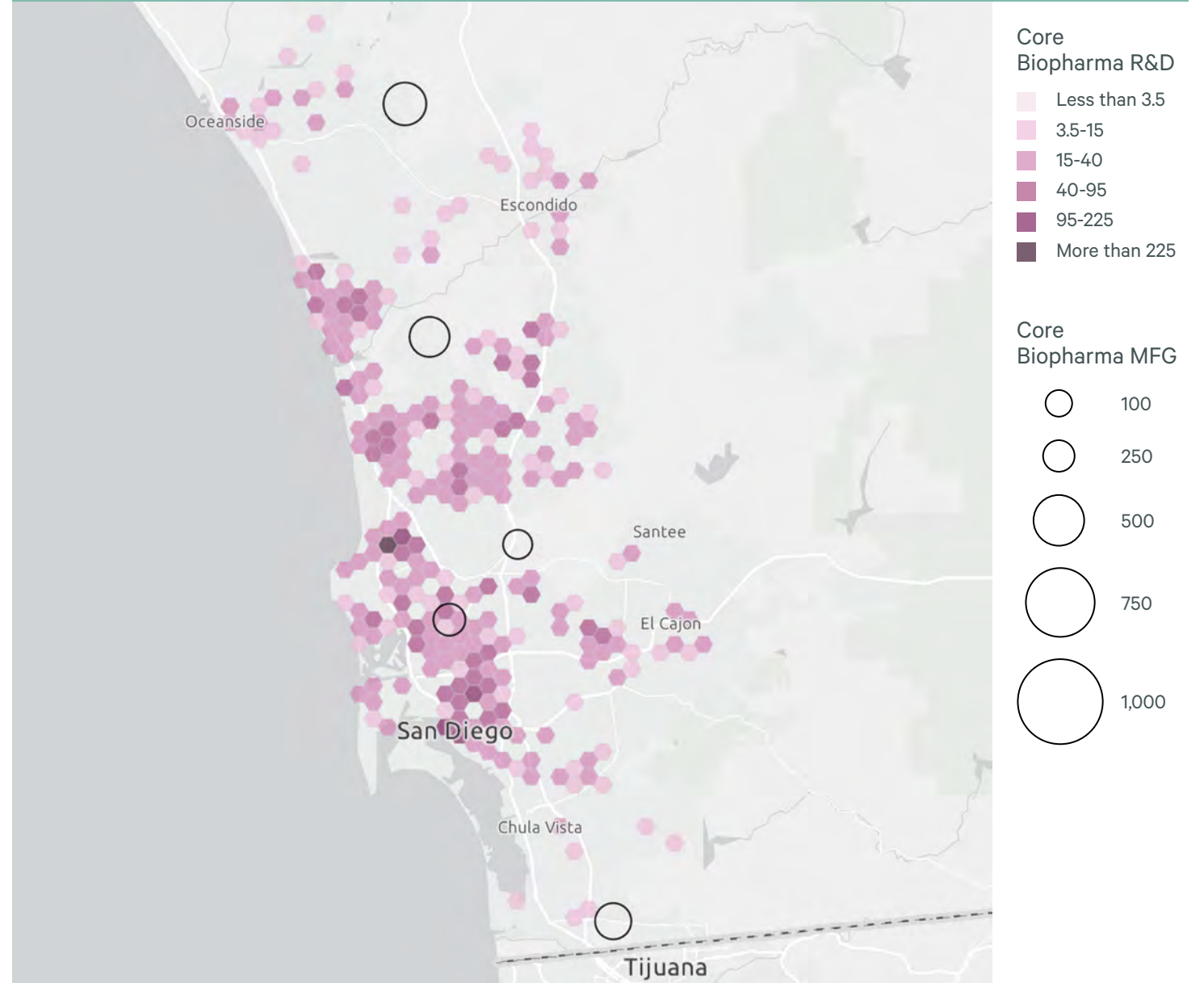


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
University of California - San Diego	1,779	372	153	2,304
San Diego State University	310	33	18	361
California State University - San Marcos	263	27	-	290
University of San Diego	191	-	-	191
Point Loma Nazarene University	54	14	-	68

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 32 San Francisco Bay Area

## BioPharma R&D

Rank **2** Score **128.1**

## BioPharma MFG

Rank **5** Score **111.7**

## Medtech

Rank **4** Score **127.4**

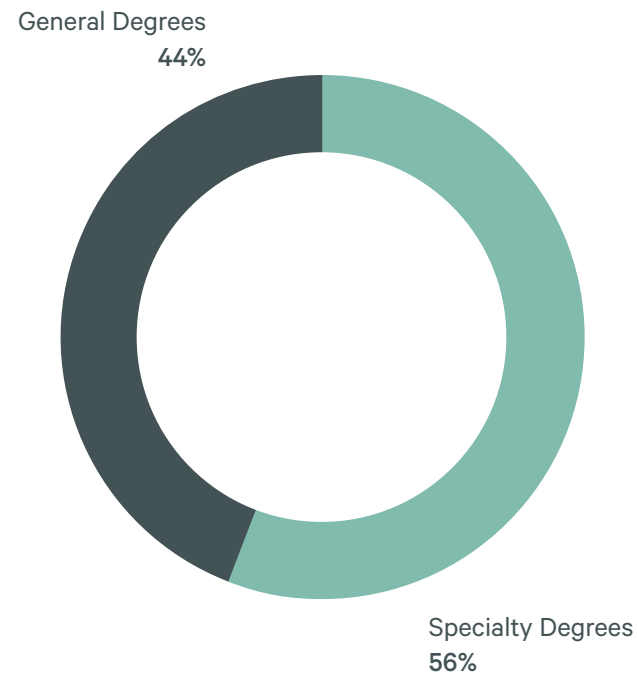
EMPLOYMENT (2023)								
Total Occupations - All Occupations: 3,564,030								
Total Occupations - BioPharma R&D		42,180	Total Occupations - BioPharma MFG		31,240	Total Occupations - Medtech		50,210
Bioengineers and Biomedical Engineers	1,020	Biological Technicians	4,800	Bioengineers and Biomedical Engineers	1,020			
Biochemists and Biophysicists	3,020	Chemical Technicians	1,760	Medical Appliance Technicians	230			
Biological Scientists, All Other	7,180	Chemical Equipment Operators and Tenders	1,000	Industrial Engineers	7,730			
Life Scientists, All Other	320	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	940	Industrial Engineering Technologists and Technicians	1,470			
Biological Technicians	4,800	Mixing and Blending Machine Setters, Operators and Tenders	990	Architectural and Engineering Managers	12,950			
Data Scientists	13,910	Packaging and Filling Machine Operators and Tenders	4,680	Electrical and Electronic Engineering Technologists and Technicians	5,010			
Microbiologists	1,140	Industrial Production Managers	5,750	Computer Numerically Controlled Tool Operators	3,260			
Epidemiologists	320	Inspectors, Testers, Sorters, Samplers and Weighers	11,320	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	14,930			
Chemists	3,150			Machinists	3,610			
Medical Scientists, Except Epidemiologists	7,320							

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



**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	3,340
5-Year Growth	9.9%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>4,347</b>
Certificates less than 4 years	239
Associate's Degrees	768
Bachelor's Degree	2,436
Master's Degree	495
Doctorate	409

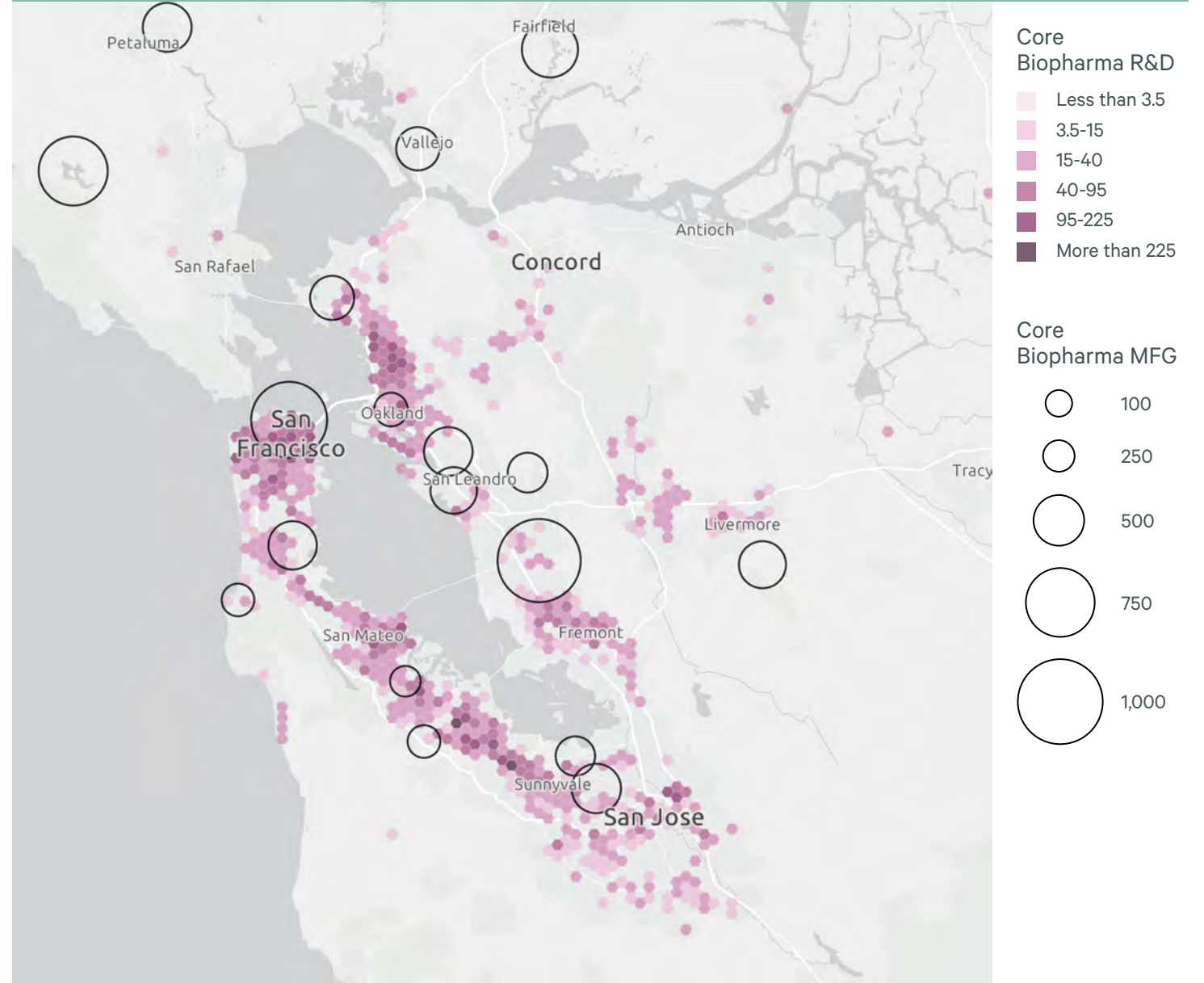


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
University of California - Berkeley	1,095	104	142	1,341
San Francisco State University	403	53	-	456
Stanford University	95	105	160	360
San Jose State University	269	82	-	351
California State University - East Bay	201	26	-	227

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 33 Seattle

## BioPharma R&D

Rank **9**      Score **108.7**

## BioPharma MFG

Rank **14**      Score **103.3**

## Medtech

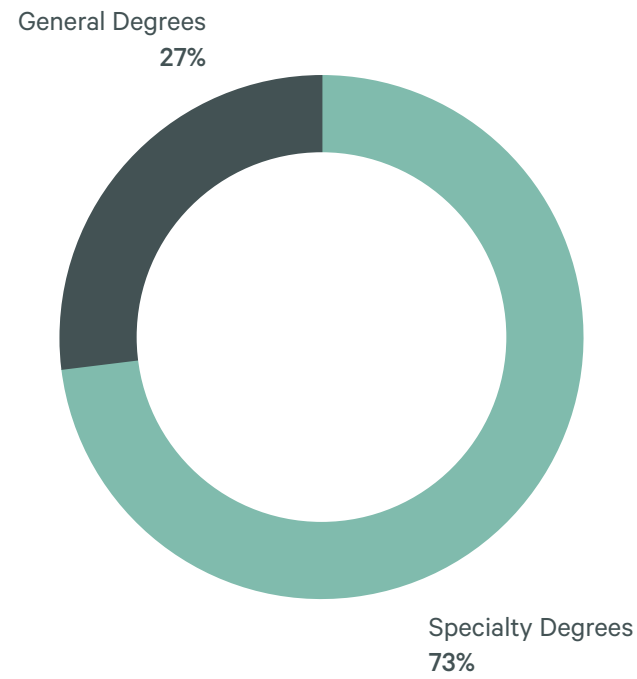
Rank **16**      Score **101.9**

EMPLOYMENT (2023)								
Total Occupations - All Occupations: 2,079,090								
Total Occupations - BioPharma R&D		17,000	Total Occupations - BioPharma MFG		17,350	Total Occupations - Medtech		21,510
Bioengineers and Biomedical Engineers	560	Biological Technicians	2,180	Bioengineers and Biomedical Engineers	560			
Biochemists and Biophysicists	300	Chemical Technicians	330	Medical Appliance Technicians	160			
Biological Scientists, All Other	1,120	Chemical Equipment Operators and Tenders	640	Industrial Engineers	4,390			
Life Scientists, All Other	150	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	510	Industrial Engineering Technologists and Technicians	690			
Biological Technicians	2,180	Mixing and Blending Machine Setters, Operators and Tenders	990	Architectural and Engineering Managers	4,030			
Data Scientists	4,810	Packaging and Filling Machine Operators and Tenders	2,610	Electrical and Electronic Engineering Technologists and Technicians	1,430			
Microbiologists	260	Industrial Production Managers	2,840	Computer Numerically Controlled Tool Operators	1,480			
Epidemiologists	630	Inspectors, Testers, Sorters, Samplers and Weighers	7,250	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	4,620			
Chemists	760			Machinists	4,150			
Medical Scientists, Except Epidemiologists	6,230							

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

**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	2,007
5-Year Growth	15.1%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>2,140</b>
Certificates less than 4 years	-
Associate's Degrees	133
Bachelor's Degree	1,704
Master's Degree	181
Doctorate	122

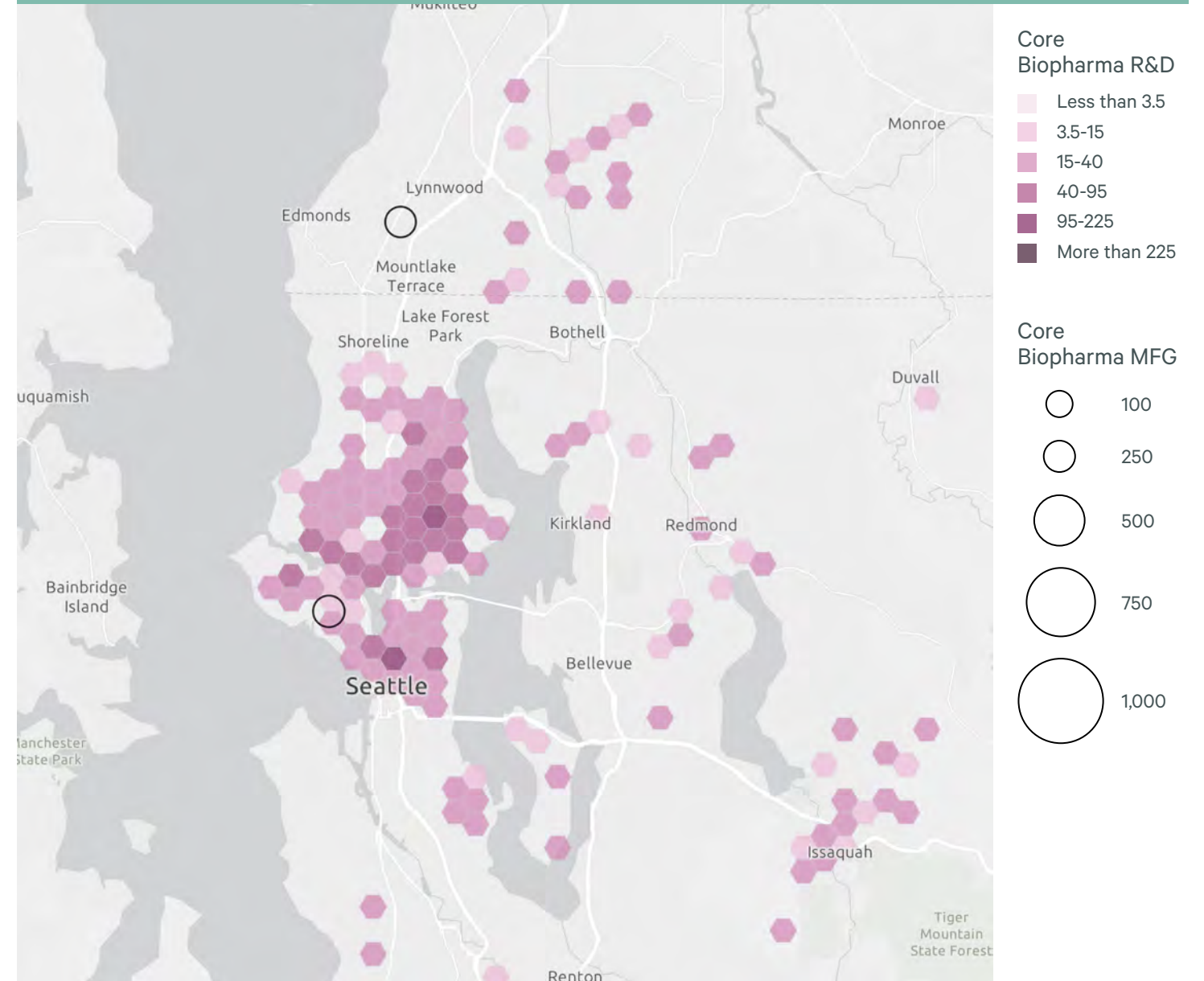


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
University of Washington - Seattle Campus	1,213	172	122	1,507
University of Washington - Bothell Campus	104	-	-	104
Seattle University	94	9	-	103
University of Washington - Tacoma Campus	100	-	-	100
Seattle Pacific University	69	-	-	69

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 34 Tampa

## Medtech

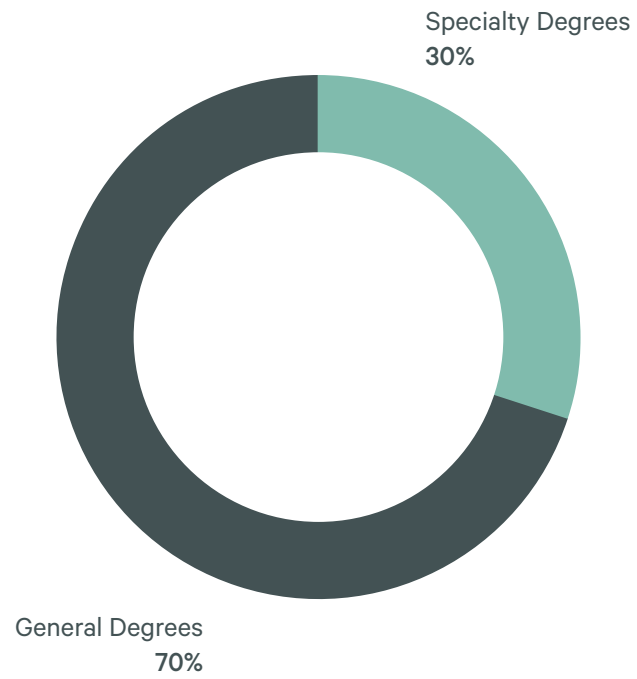
Rank **21**    Score **100.8**

EMPLOYMENT (2023)	
<b>Total Occupations - All Occupations: 1,412,840</b>	
<b>Total Occupations - Medtech</b>	<b>9,830</b>
Bioengineers and Biomedical Engineers	120
Medical Appliance Technicians	300
Industrial Engineers	2,250
Industrial Engineering Technologists and Technicians	340
Architectural and Engineering Managers	1,080
Electrical and Electronic Engineering Technologists and Technicians	1,170
Computer Numerically Controlled Tool Operators	980
Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	2,040

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

**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	2,099
5-Year Growth	25.3%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>2,099</b>
Certificates less than 4 years*	-
Associate's Degrees	-
Bachelor's Degree	1,739
Master's Degree	320
Doctorate	40

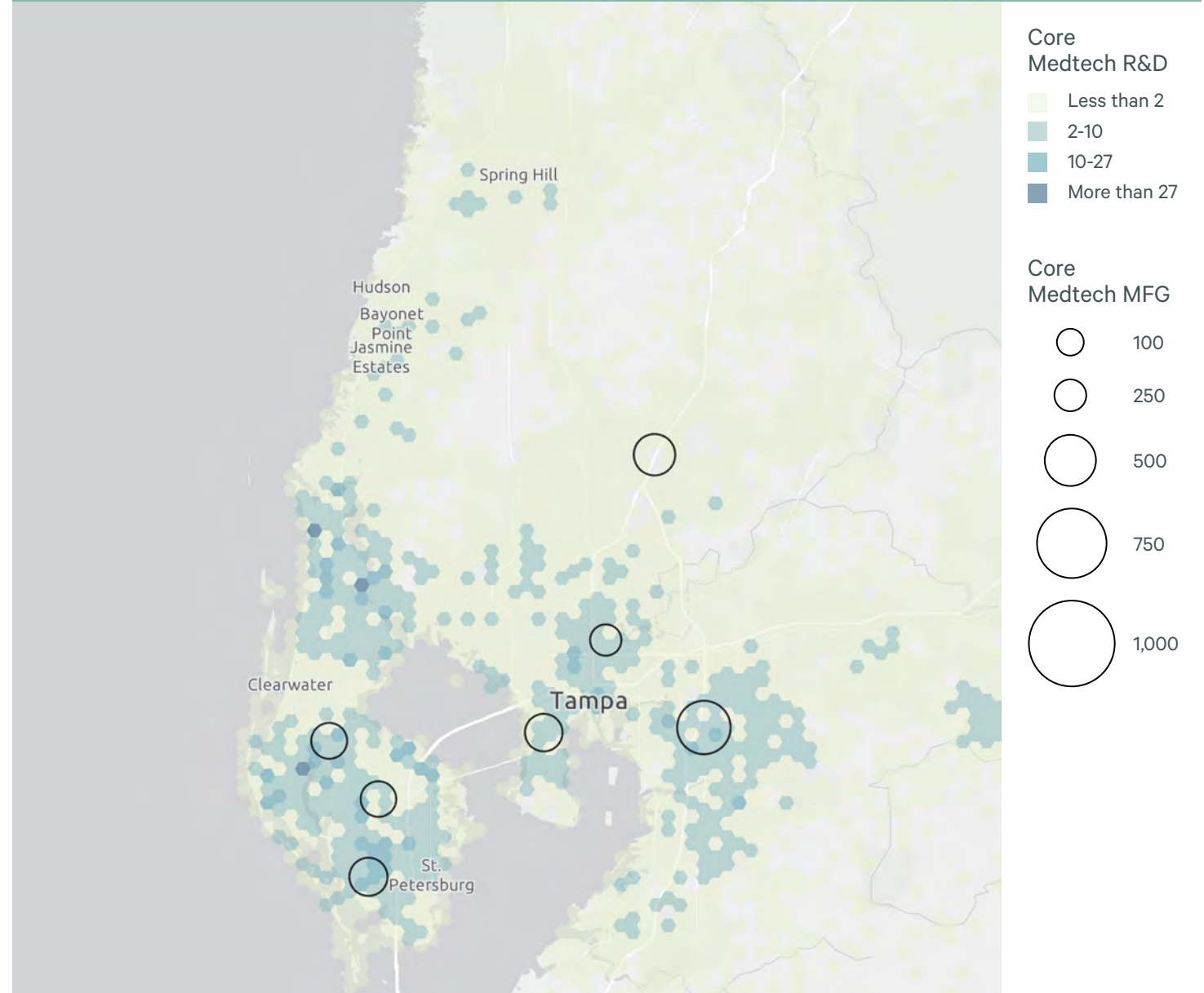


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
University of South Florida	1,309	284	40	1,633
The University of Tampa	178	36	-	214
Eckerd College	200	-	-	200
Saint Leo University	28	-	-	28
St Petersburg College	24	-	-	24

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 35 Trenton, NJ

## BioPharma R&D

Rank **18**    Score **102.3**

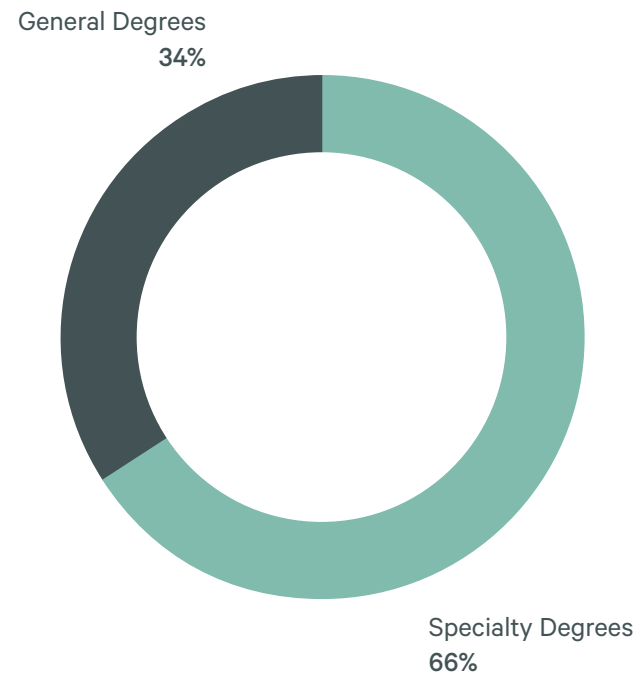
EMPLOYMENT (2023)	
<b>Total Occupations - All Occupations: 238,490</b>	
<b>Total Occupations - BioPharma R&amp;D</b>	<b>2,520</b>
Bioengineers and Biomedical Engineers	-
Biochemists and Biophysicists	520
Biological Scientists, All Other	50
Life Scientists, All Other	-
Biological Technicians	210
Data Scientists	370
Microbiologists	160
Epidemiologists	90
Chemists	480
Medical Scientists, Except Epidemiologists	640

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



**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	409
5-Year Growth	12.7%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>409</b>
Certificates less than 4 years*	-
Associate's Degrees	-
Bachelor's Degree	305
Master's Degree	53
Doctorate	51

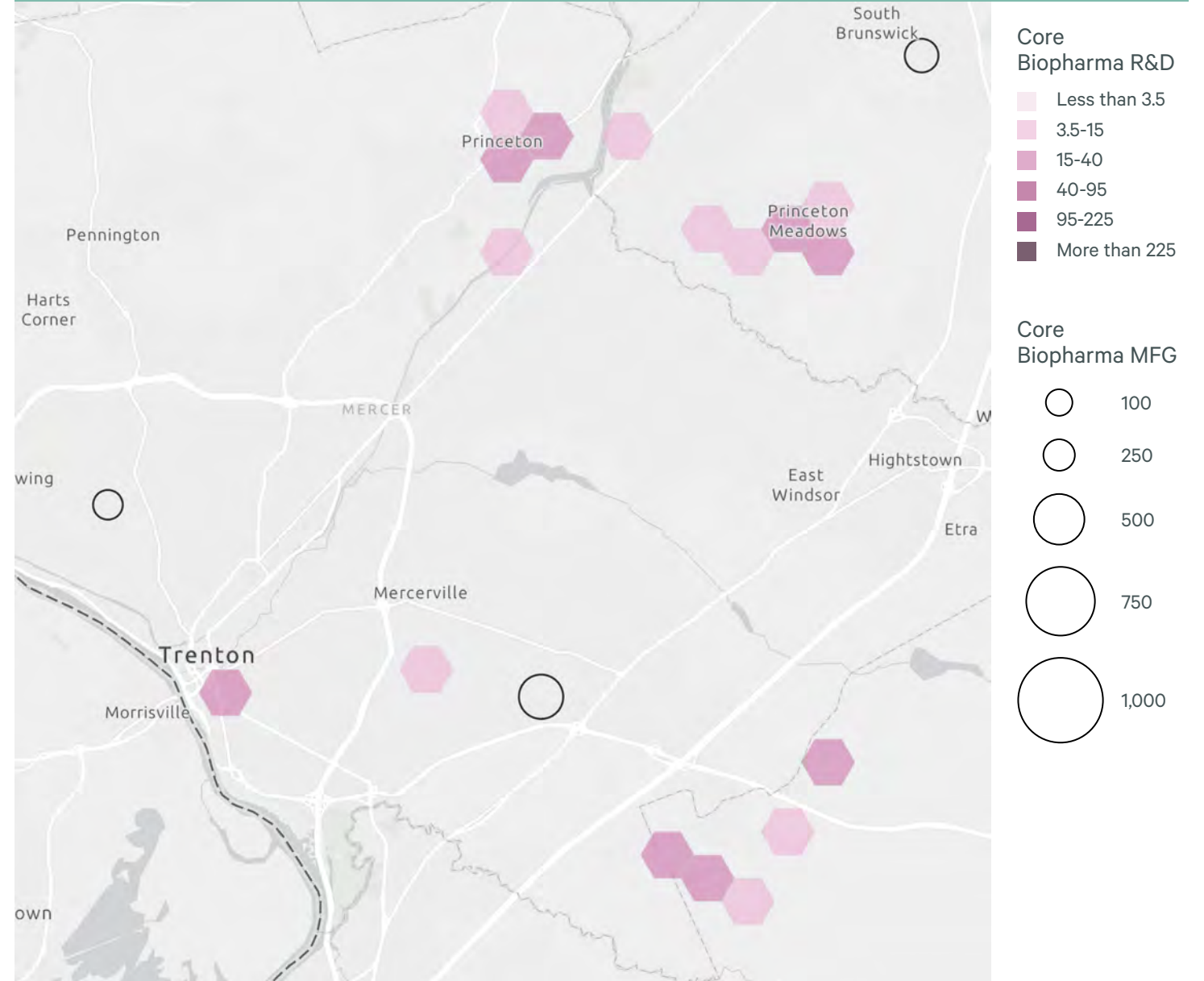


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
Princeton University	125	53	51	229
The College of New Jersey	155	-	-	155
Rider University	25	-	-	25

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# 36 Washington, D.C.-Baltimore

## BioPharma R&D

Rank **3**      Score **127.6**

## BioPharma MFG

Rank **9**      Score **105.2**

## Medtech

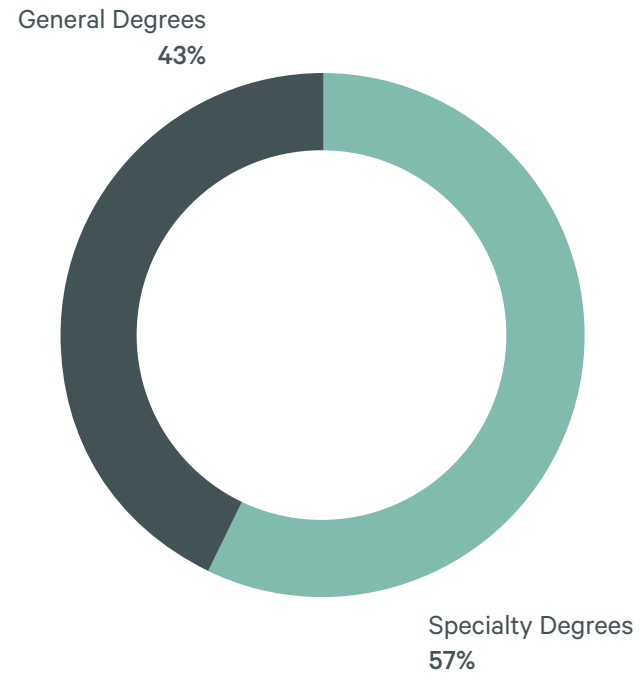
Rank **11**      Score **103.9**

EMPLOYMENT (2023)								
Total Occupations - All Occupations: 4,396,380								
Total Occupations - BioPharma R&D		34,590	Total Occupations - BioPharma MFG		17,660	Total Occupations - Medtech		19,720
Bioengineers and Biomedical Engineers	610	Biological Technicians	4,020	Bioengineers and Biomedical Engineers	610			
Biochemists and Biophysicists	960	Chemical Technicians	1,040	Medical Appliance Technicians	80			
Biological Scientists, All Other	7,070	Chemical Equipment Operators and Tenders	1,050	Industrial Engineers	3,150			
Life Scientists, All Other	670	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	800	Industrial Engineering Technologists and Technicians	410			
Biological Technicians	4,020	Mixing and Blending Machine Setters, Operators and Tenders	1,730	Architectural and Engineering Managers	7,410			
Data Scientists	7,690	Packaging and Filling Machine Operators and Tenders	1,990	Electrical and Electronic Engineering Technologists and Technicians	2,710			
Microbiologists	1,980	Industrial Production Managers	2,180	Computer Numerically Controlled Tool Operators	2,090			
Epidemiologists	510	Inspectors, Testers, Sorters, Samplers and Weighers	4,850	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	1,880			
Chemists	3,600			Machinists	1,380			
Medical Scientists, Except Epidemiologists	7,480							

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

### TALENT PIPELINE (2022)

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	5,798
5-Year Growth	18.3%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>5,834</b>
Certificates less than 4 years	24
Associate's Degrees	12
Bachelor's Degree	3,416
Master's Degree	1,949
Doctorate	433

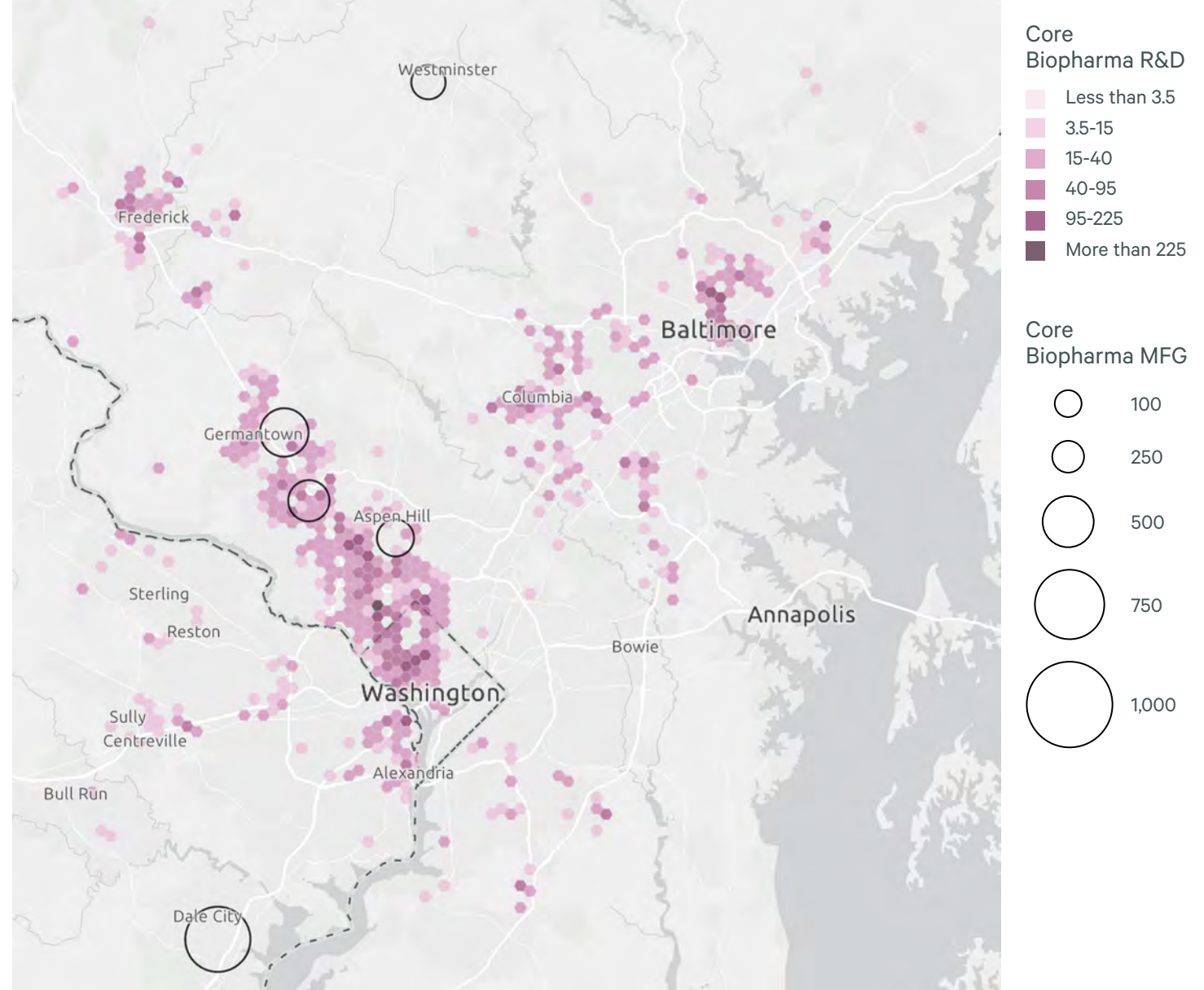


### TOP LIFE SCIENCES COLLEGES & UNIVERSITIES

School	Bachelors	Masters	Doctorate	Total
Johns Hopkins University	472	868	197	1,537
University of Maryland - College Park	720	20	55	795
Georgetown University	127	455	27	609
George Mason University	405	74	26	505
University of Maryland - Baltimore County	425	24	7	456

Source: IPEDS, CBRE Research

### LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?



Source: CBRE Location Intelligence

# 37 Worcester, MA

## BioPharma MFG

Rank **25** Score **101.2**

## Medtech

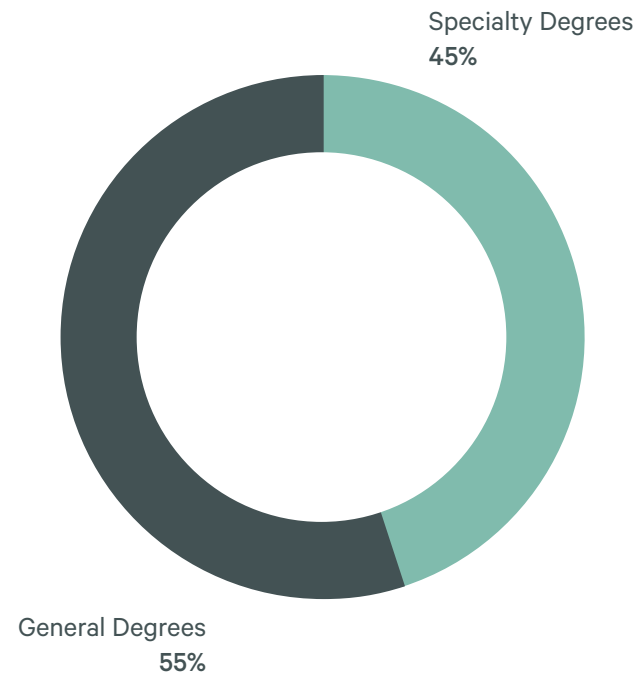
Rank **24** Score **100.7**

EMPLOYMENT (2023)			
Total Occupations - All Occupations: 282,120			
Total Occupations - BioPharma MFG		Total Occupations - Medtech	
Biological Technicians	470	Bioengineers and Biomedical Engineers	140
Chemical Technicians	250	Medical Appliance Technicians	-
Chemical Equipment Operators and Tenders	140	Industrial Engineers	980
Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators and Tenders	80	Industrial Engineering Technologists and Technicians	220
Mixing and Blending Machine Setters, Operators and Tenders	150	Architectural and Engineering Managers	390
Packaging and Filling Machine Operators and Tenders	570	Electrical and Electronic Engineering Technologists and Technicians	180
Industrial Production Managers	540	Computer Numerically Controlled Tool Operators	420
Inspectors, Testers, Sorters, Samplers and Weighers	1,120	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	1,180
		Machinists	950

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

**TALENT PIPELINE (2022)**

Degree Completions (Bachelor's and higher)	Total Degrees
Biological and Biomedical Sciences	708
5-Year Growth	1.0%
Degree Completions (Biological & Biomedical Sciences)	
<b>Total</b>	<b>756</b>
Certificates less than 4 years	5
Associate's Degrees	43
Bachelor's Degree	569
Master's Degree	85
Doctorate	54

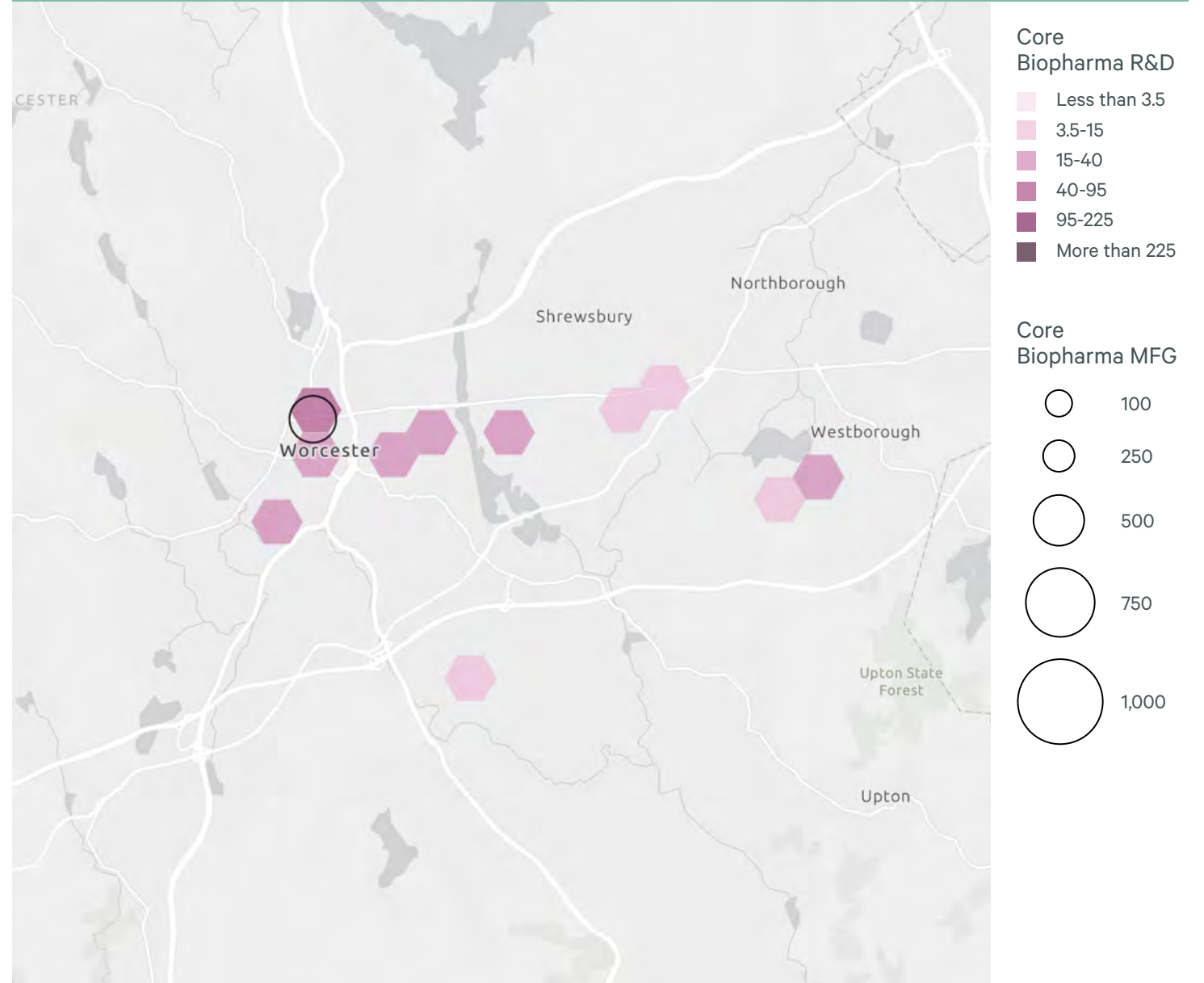


**TOP LIFE SCIENCES COLLEGES & UNIVERSITIES**

School	Bachelors	Masters	Doctorate	Total
Worcester Polytechnic Institute	214	54	6	274
Worcester State University	83	6	-	89
Clark University	63	19	2	84
College of the Holy Cross	60	-	-	60
Fitchburg State University	58	-	-	58

Source: IPEDS, CBRE Research

**LIFE SCIENCES RESEARCH TALENT: WHERE DOES TALENT LIVE?**



Source: CBRE Location Intelligence

# Contacts

## CBRE Research

### **Matt Gardner**

Head of U.S. Life Sciences  
Advisory & Transaction Services  
+1 916 446 8779  
matt.gardner@cbre.com

### **Richard Barkham, Ph.D.**

Global Chief Economist  
Head of Global Research & Head of Americas Research  
+1 617 912 5215  
richard.barkham@cbre.com

### **Julie Whelan**

Senior Vice President  
Global Head of Occupier Thought Leadership  
+1 617 912 5229  
julie.whelan@cbre.com

### **Ian Anderson**

Senior Director of Research  
+1 215 561 8997  
ian.anderson2@cbre.com

### **Taylor Lee**

Associate Research Director  
taylor.lee@cbre.com

### **Suzanne Duca**

Director of Research  
+1 617 912 7041  
suzanne.duca@cbre.com

## Contributors

### **Douglas Jones**

GIS Solutions Consultant  
CBRE | Location Intelligence  
+1 312 861 7806  
doug.jones@cbre.com

### **Ricardo Tarango**

GIS Analyst  
CBRE | Americas Consulting | Location Intelligence  
+1 602 627 7550  
ricardo.tarango@cbre.com

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