# The National Life Science Market Overview



#### **Market Observations**

U.S. venture capital funding surged to \$15.8 billion in the first half of 2024, set to exceed last year's total.

Life science M&A activity reached \$62.0 billion through the second quarter of 2024, which is roughly half of the year prior's total.

Amid labor market headwinds average monthly gains have given way to losses. With that, R&D employment is showing positive growth.

Big Pharma continues to allocate more revenue to research and development efforts, signaling strong future growth.



The Bay Area and San Diego are driving modest demand growth, but tenants remain cautious and are leasing less space for shorter terms.

Vacancies continue to rise across most major markets, with roughly half of the ley clusters boasting vacancies above 20%.

Although asking rents nearly doubled over the past five years, asking rents are correcting materially in many major life science markets.

After three quarters of record levels of deliveries, new purpose-built construction is slowing down rapidly.

The rising use of weight loss drugs has prompted several pharma companies to expand their domestic manufacturing capacity.

#### 2024 Life Science Trends to Watch

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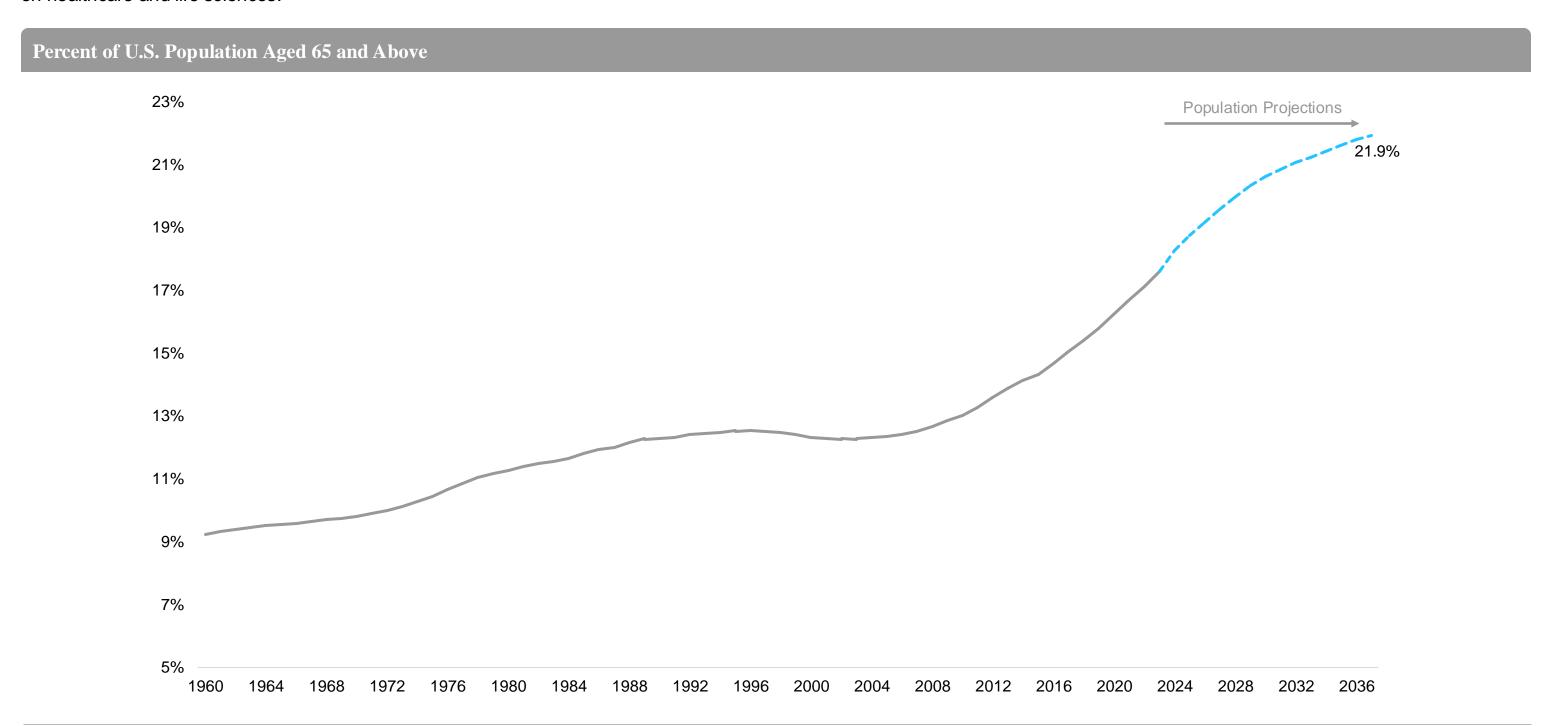
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# Demand Drivers



# The Graying of America: U.S. Population is Aging

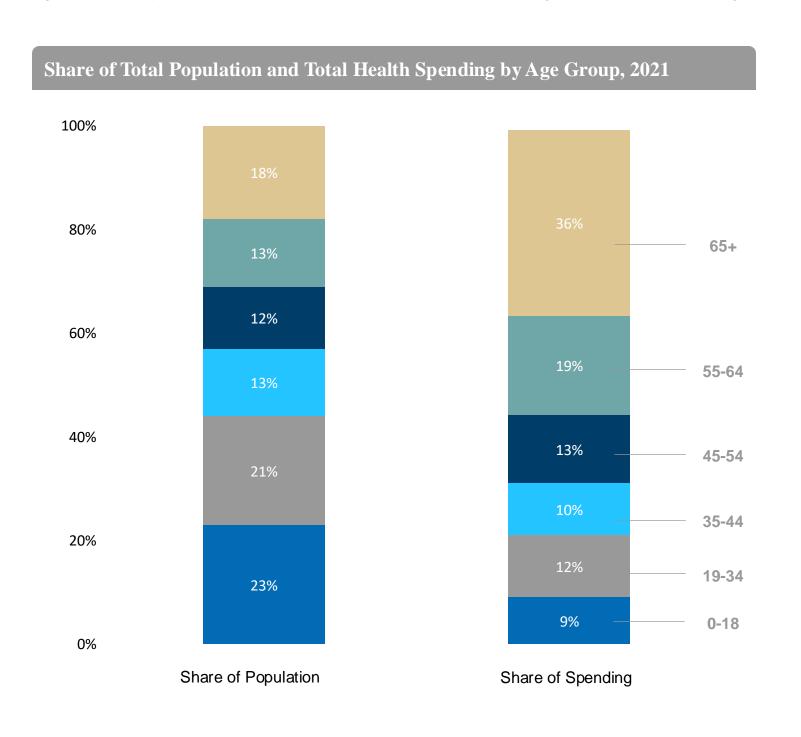
As of 2023, the percentage of U.S. residents aged 65 and older rose to 17.6%. Much of this growth can be attributed to the aging Baby Boomers, which has historically been the nation's largest generation. Population projections point to accelerated growth among this age cohort. This aging demographic will remain a driving force behind the growing emphasis on healthcare and life sciences.

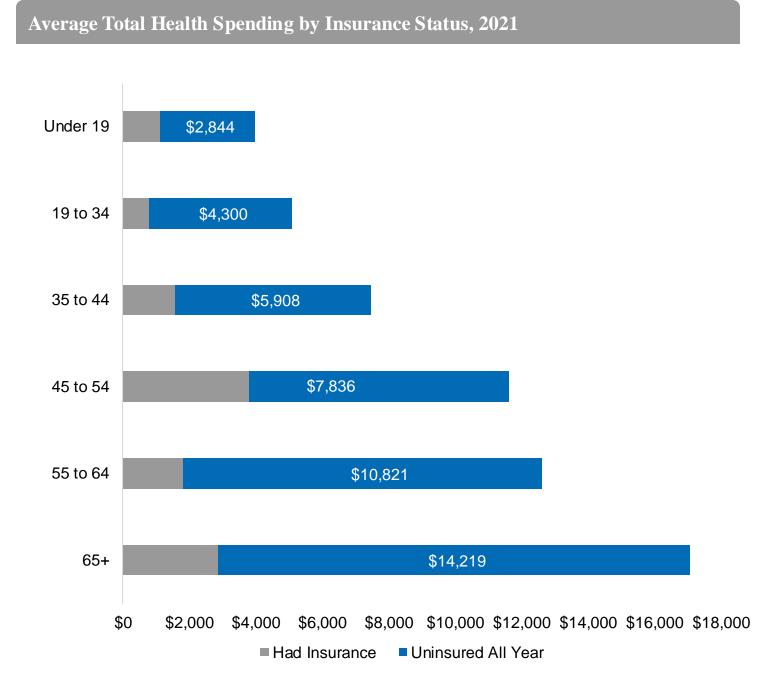


Source: The United Nations Population Division's World Population Prospects, JobsEQ, Newmark Research

## The Price of Aging: Older Cohorts Maintain Higher Healthcare Costs

Individuals aged 65 years and older account for the greatest share of total healthcare spending. On a per-capita basis, the oldest insured age cohort spends 31.4% more than those aged 55 to 64 years old. As the U.S. population continues to age, healthcare spending will have an increasingly significant impact, likely benefiting the life science sector.

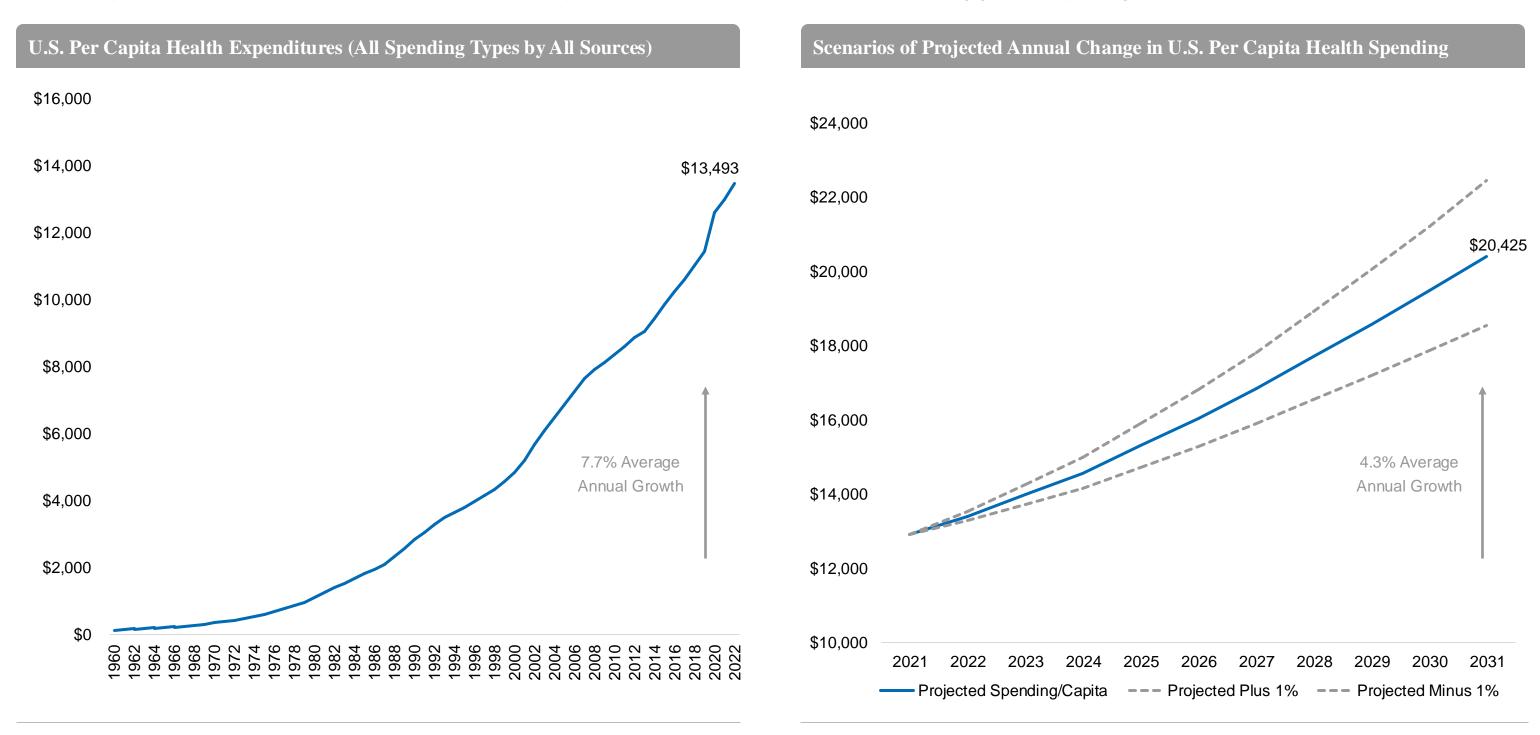




Source: KFF Analysis of Medical Expenditure Panel Survey 2021 data, Newmark Research

## Healthcare Spending Per Capita Has Reached a 60-Year High and is Rising

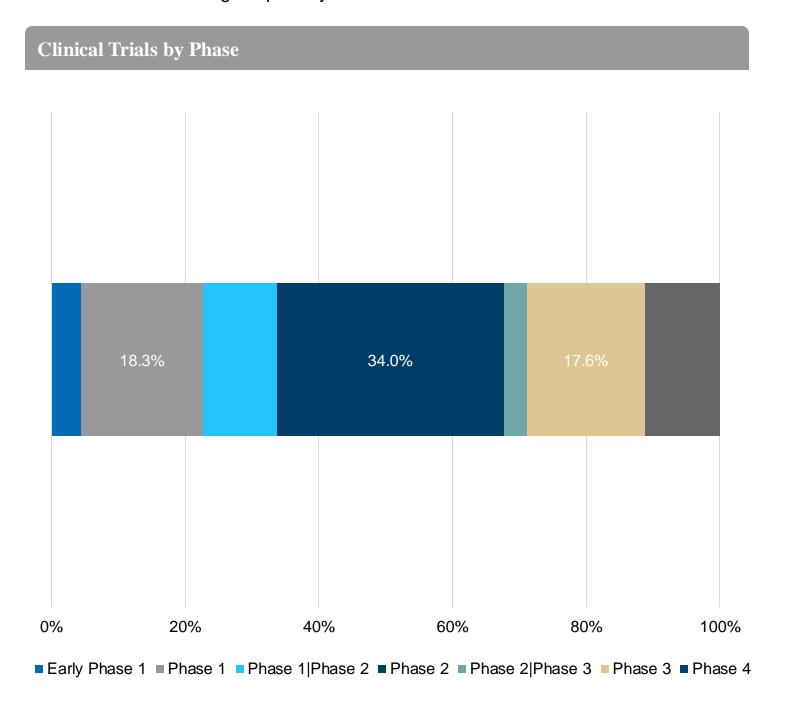
As the population ages, an increased focus on healthcare will drive life science demand. Healthcare spending has increased an average of 7.7% annually since 1960, with inflation driving more recent trends. Per-capita spending in the base case scenario is projected to increase by roughly 58.0% by 2031 or 4.3% per year. If healthcare spending per capita increases by an additional 1.0% annually, this could reach 73.9% by 2031. Given historical patterns, actual spending growth may be higher.

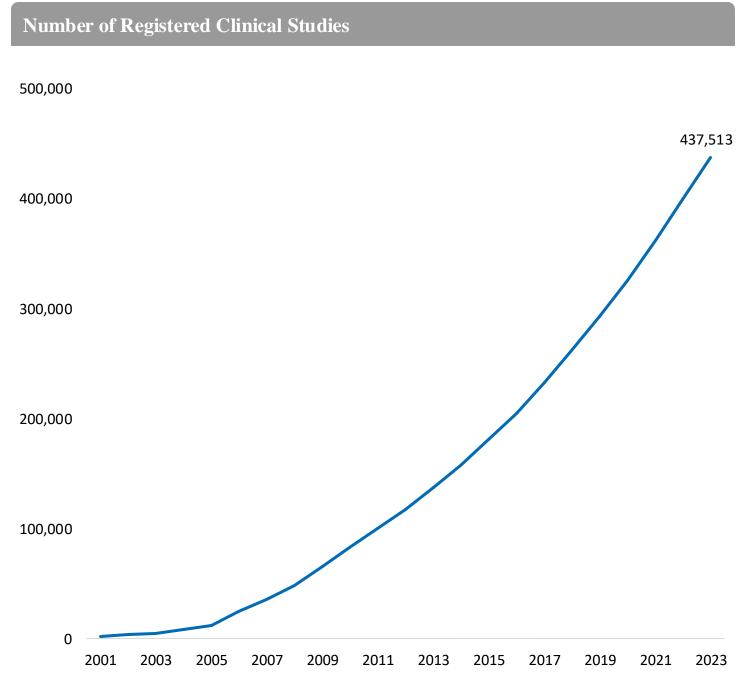


Source: KFF Analysis of Medical Expenditure Panel Survey 2022 data, KFF Analysis of NHEA, National Health Spending Explorer, Newmark Research

#### Growth in Active Clinical Trials Supports Future Lab Demand

Over the last 20+ years, U.S. clinical trials have grown exponentially; the number of registered studies reached a record high in 2023. Life science companies with drugs in any phase of trial could experience greater space needs, but later-stage studies tend to be larger. Clinical trials receive funding from several sources, with private investment and the National Institutes of Health being the primary contributors.



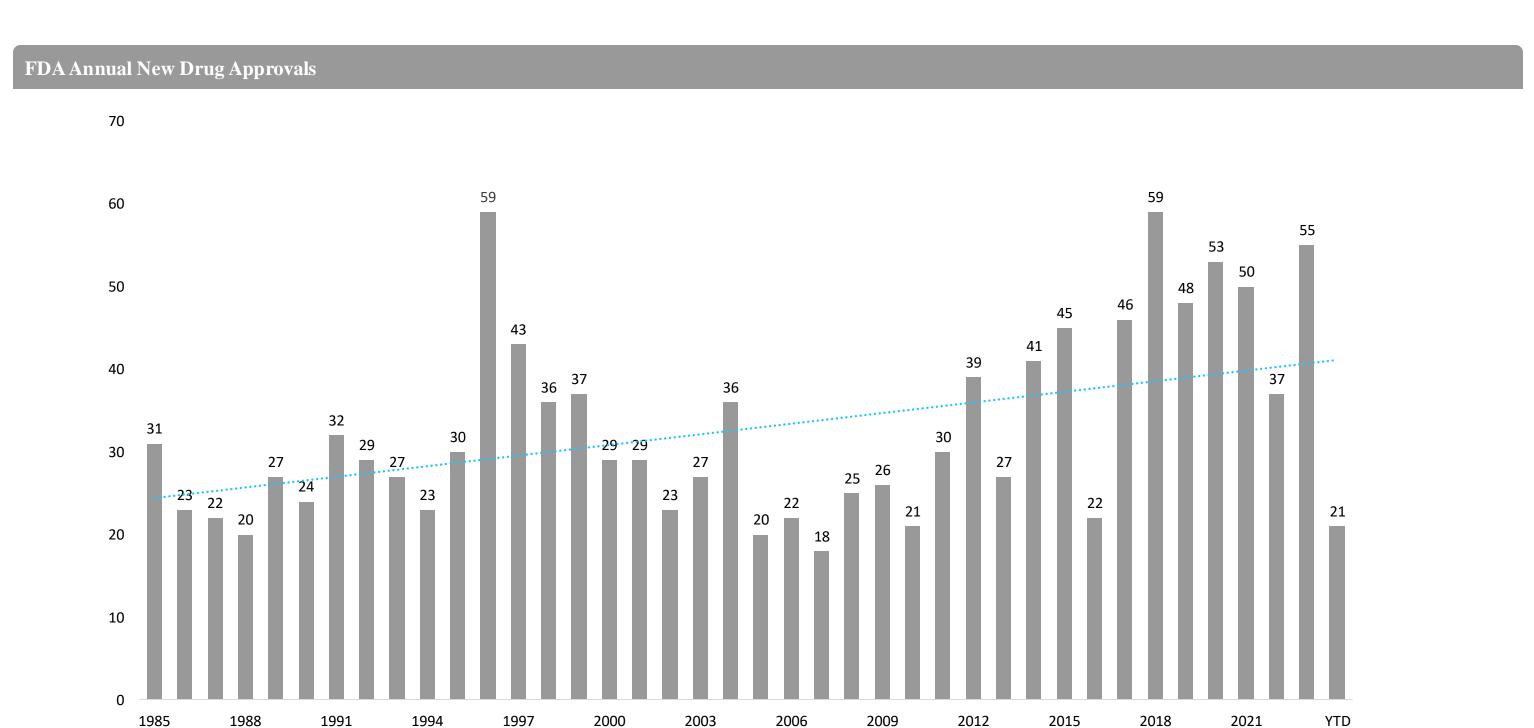


Source: ClinicalTrials.gov, Newmark Research

Note: Includes interventional clinical trials with a recruitment status of not yet recruiting, recruiting, enrolling by invitation, and active (not recruiting).

# Positive Momentum in FDA Approvals Could Spur More Biotech Investment

Following a record year for drug approvals, the FDA approved 21 novel drugs in the first half of 2024. As new drugs and treatments progress through the pipeline, biotech companies will need more research, development, and manufacturing space. According to PhRMA, only 12% of new molecular entities that enter clinical trials receive FDA approval.

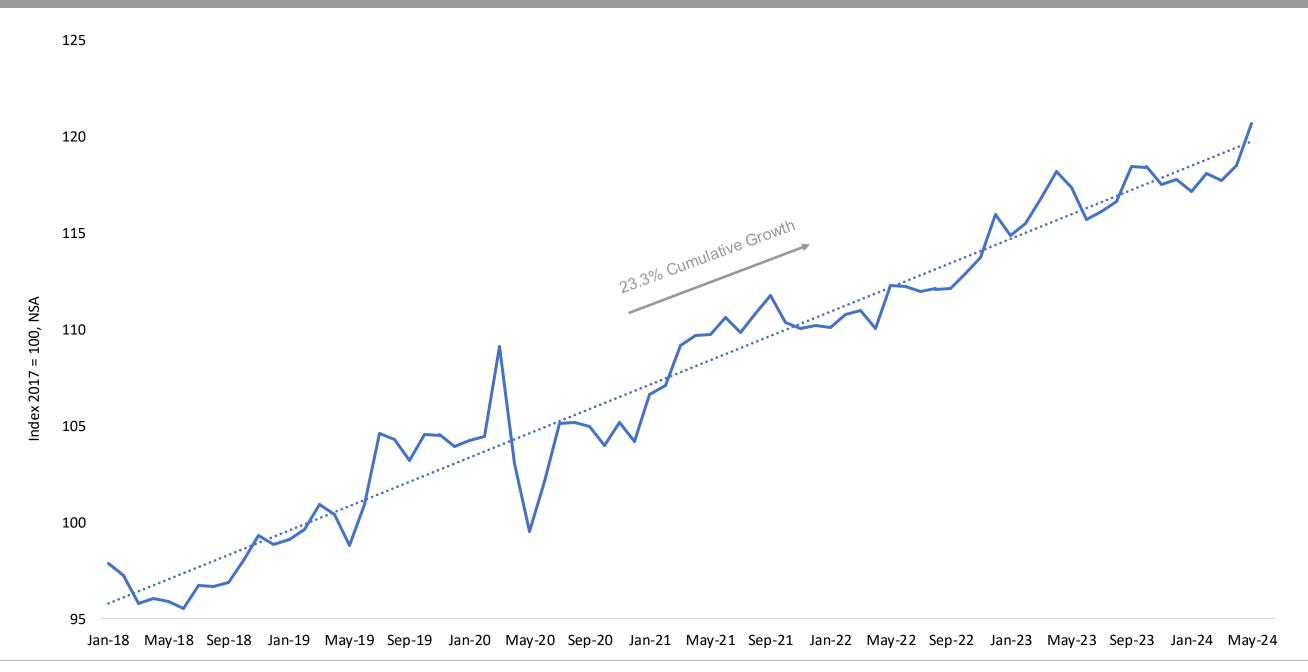


Source: Board of Governors of the Federal Reserve System, Newmark Research

#### Pharmaceutical Manufacturing Production Is off from the Peak

The industrial production of pharmaceuticals and medicine, which measures the real output of U.S.-based establishments, surpassed the previous five-year peak reported in mid-2023. Recent federal investments in this space and the growing demand for GLP-1 drugs is fueling increased manufacturing capacity. In response, several drug makers have announced sizeable expansions in recent months.

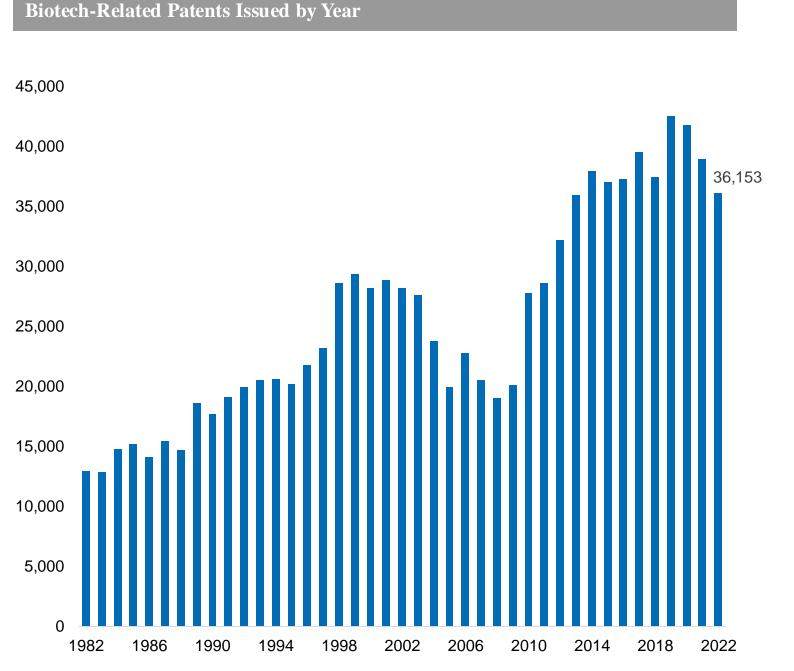


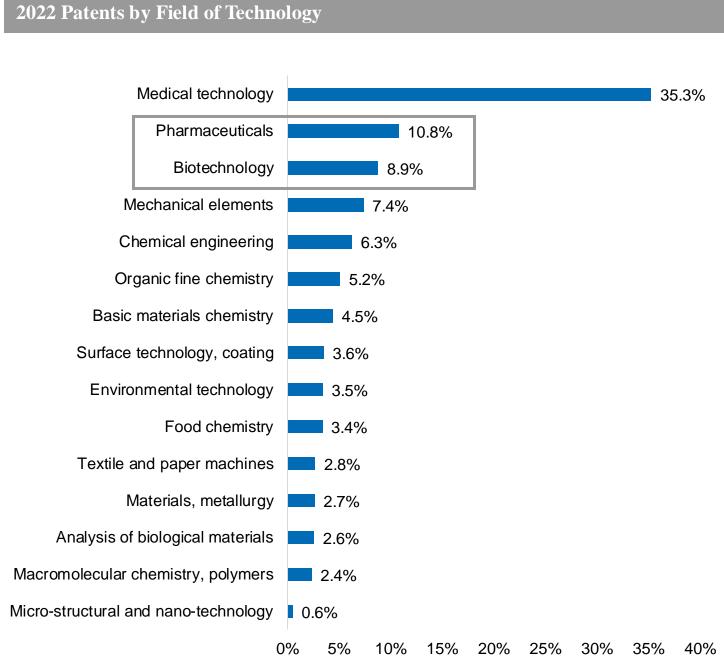


Source: Board of Governors of the Federal Reserve System, Newmark Research

#### The Impending Patent Cliff Stands to Reshape the Pharmaceutical Industry

Patents issued for biotech-related fields reached a two-year low in 2022. The pharmaceutical and biotechnology fields still represent close to 20.0% of all biotech-related patents issued. The impending "patent cliff" facing several big pharma companies is fast approaching and represents a key risk for investors. According to PharmaVoice, patents on 190 drugs will expire by 2030, which will ultimately impact sales revenue.





Source: WIPO Statistics Database, Healthpeak Properties, Newmark Research

The Patent Cliff Has Implications for Big Pharma

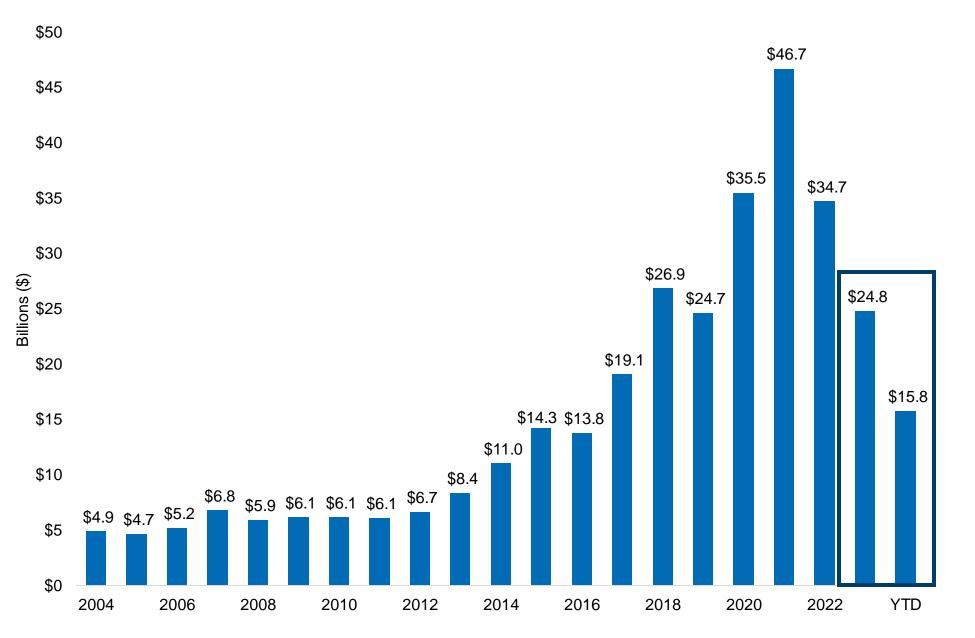
The Patent Cliff Has Implications for Big Pharma

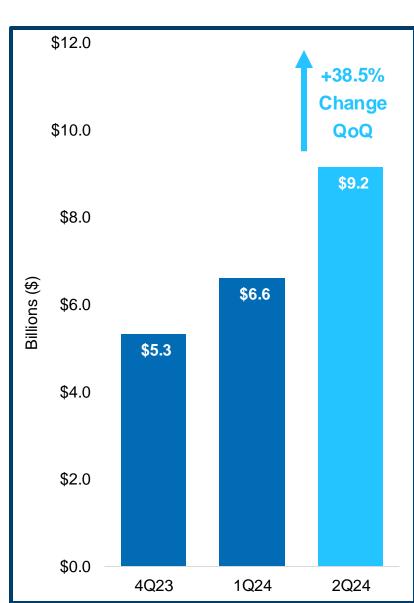
The Venture Capital Landscape is on More Positive Footing

#### Venture Capital Funding Post Second Quarter of Growth

Venture capital funding for U.S. life science companies reached \$15.8 billion during the first half of 2024 and is now on pace to outstrip last year's totals. Xaira Therapeutic's \$1 billion funding commitment represents the largest funding events of 2024. Increasing deal sizes indicate continued selectiveness among investors when deploying capital. Life science companies with the most promising science should still be able to raise capital, but they will need to do more with less.

#### Annual VC Funding (2004-2024)





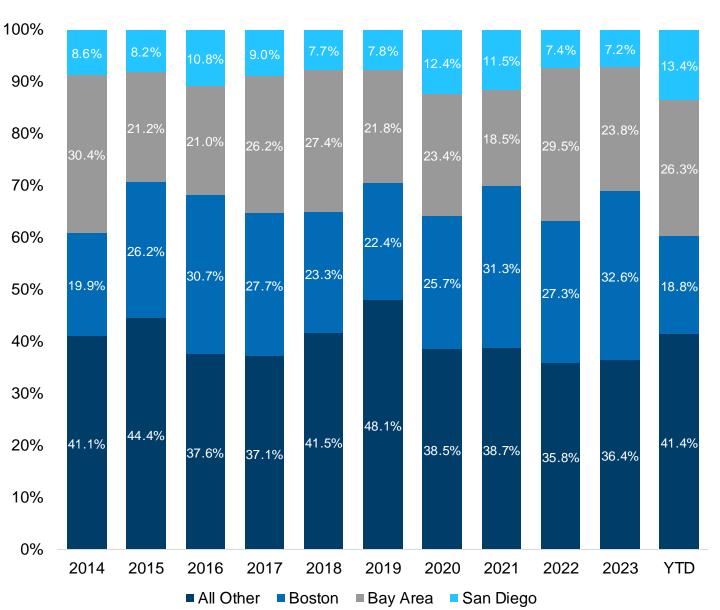
Source: PitchBook, Newmark Research

#### Seed Funding Boasts Relative Resilience

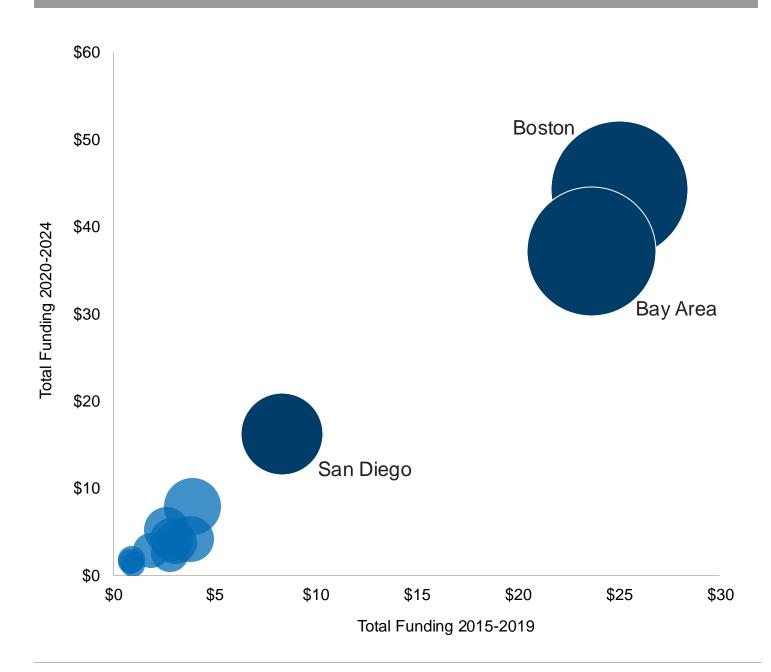
## VC Funding is Trending More Positively in the Bay Area and San Diego

The top three life science hubs in the U.S. consistently attract close to 60.0% of all venture capital funding annually. During the first half of 2024, life science companies based in these three markets raised \$9.2 billion in funding. Greater Boston's share of the total declined considerably, ending the second quarter of 2024 at 18.8%.





#### **Historical Life Science Funding: By Metro (in billions)**



Source: Pitchbook, Newmark Research

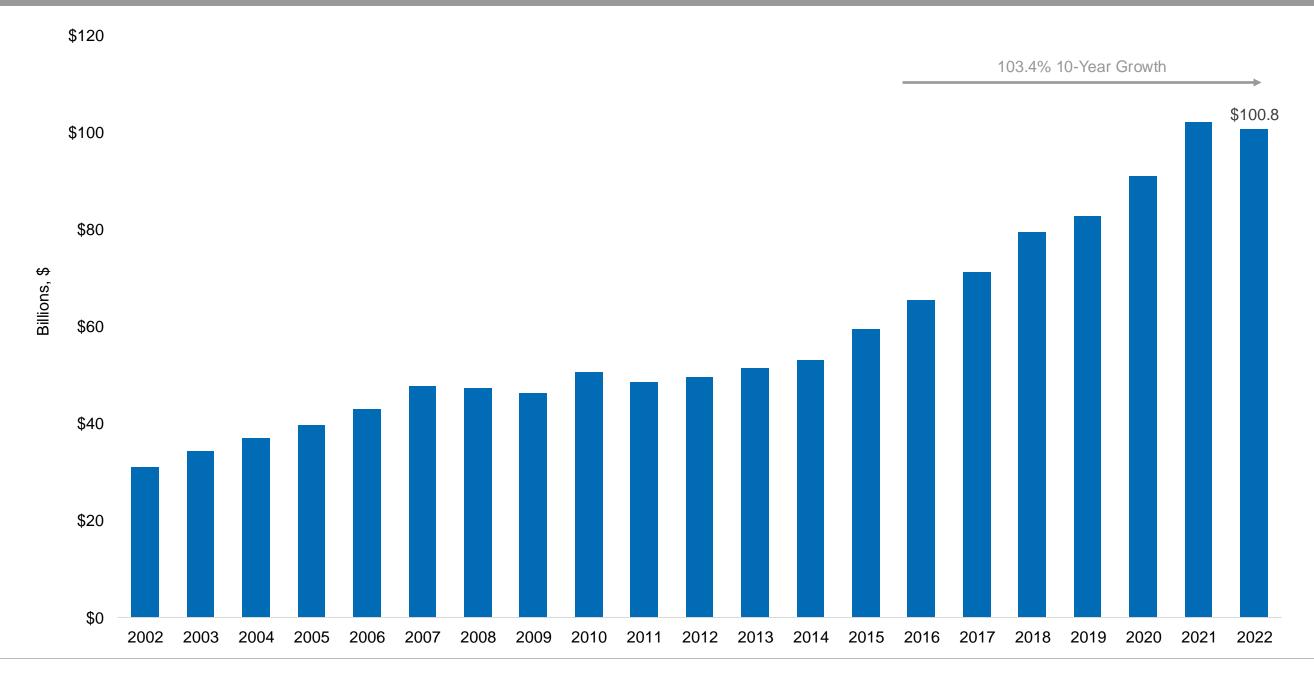
Size of bubble represents total funding 2015-2024

#### M&A Momentum Continues into 2024

#### Robust Spending in Corporate R&D Is Driving Rapid Scientific Advances

In 10 years, PhRMA member companies increased research and development spending by more than 100.0%, with trillions of dollars invested over the last 30 to 40 years. Though total investment declined slightly in 2022, this represents the second consecutive year that biopharma companies have spent more than \$100 billion in R&D. Nearly 29% of R&D spending was invested in Phase III R&D activities.

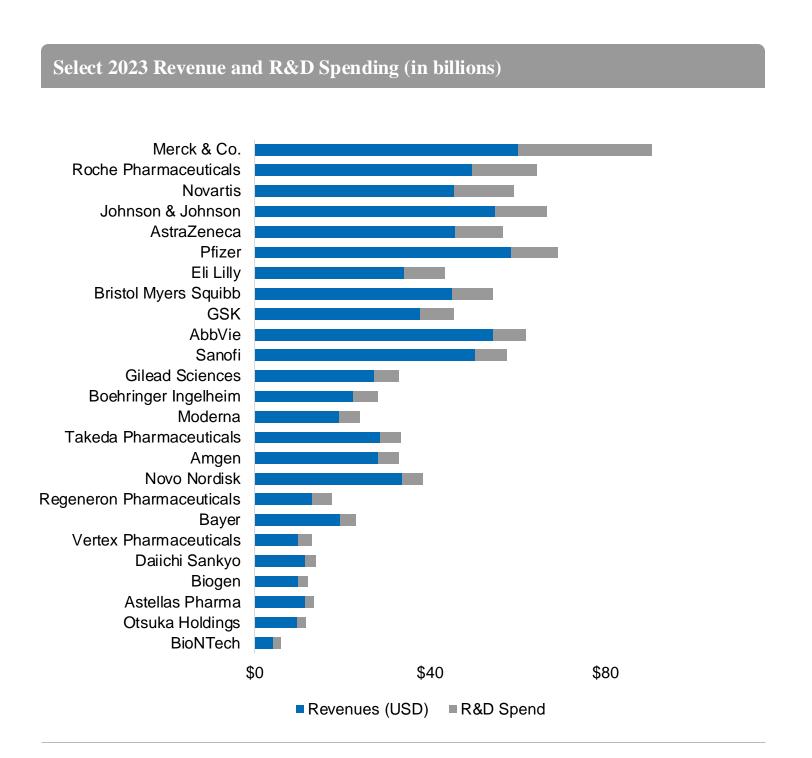


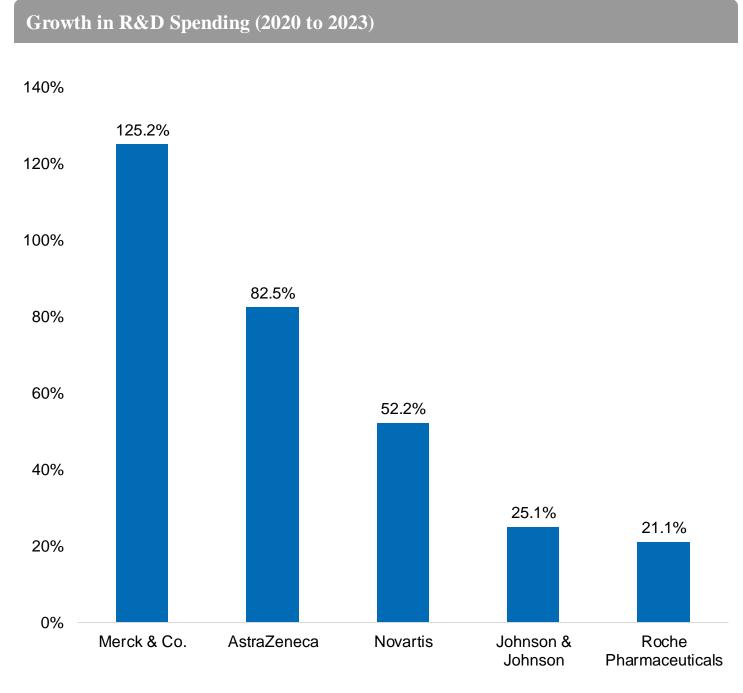


Source: Pharmaceutical Research and Manufacturers of America (PhRMA Member Companies), Newmark Research

## Big Pharma Maintains Strong Investment in Research and Development

According to Drug Discovery & Development, most large pharmaceutical companies are dedicating 14% to 30% of revenues to R&D, with Merck & Co. allocating \$30.5 billion for R&D spending in 2023. As the largest source driving life science R&D, a resurgence in spending bodes well for growth this sector.



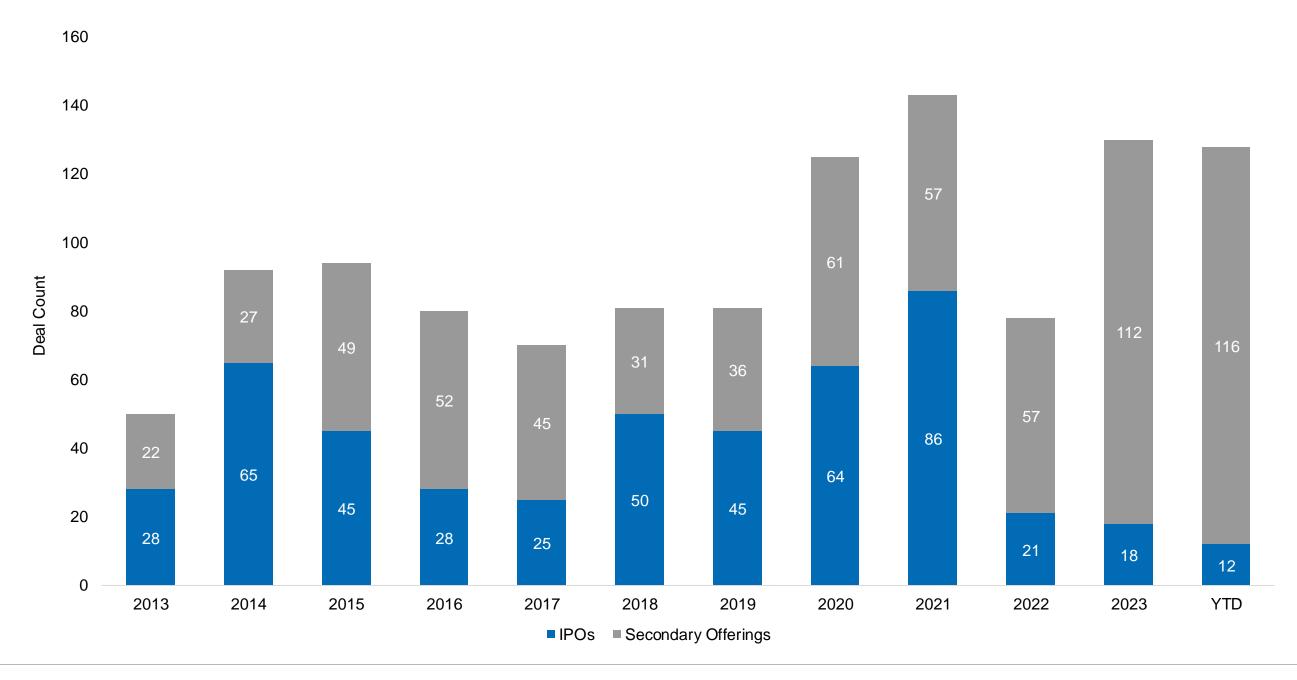


Source: Drug Discovery & Development, Newmark Research

# The IPO Market Appears to be Thawing, Signaling Positive Momentum

For biotech IPOs, 2022 and 2023 were among the slowest years on record. In the first half of 2024, 12 biotech companies went public, with total capital raised approaching that of the previous years. Investors are likely to remain focused on the highest-quality companies to mitigate downside risks.

#### **Public Sources of Capital**

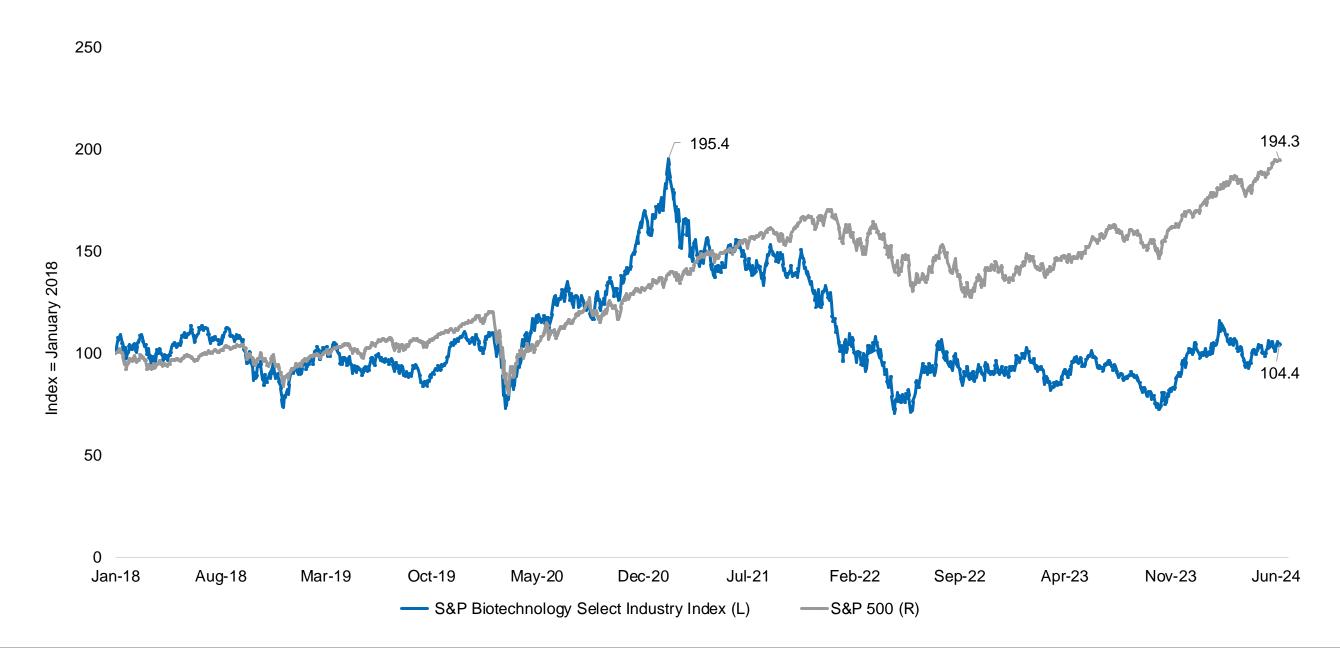


Source: Pitchbook, Newmark Research
As of October 2023

#### Public Market Performance Continues to Diverge

The S&P Biotech Index highlights the run-up in public company valuations and oversized initial public offerings. After peaking in late 2020 at the height of the market, the index continued to decline throughout most of 2023. Although a modest recovery in late 2023 set the stage for more gains heading into 2024, growth seems to have pulled back by the end of the second quarter.





Source: S&P Global, Newmark Research

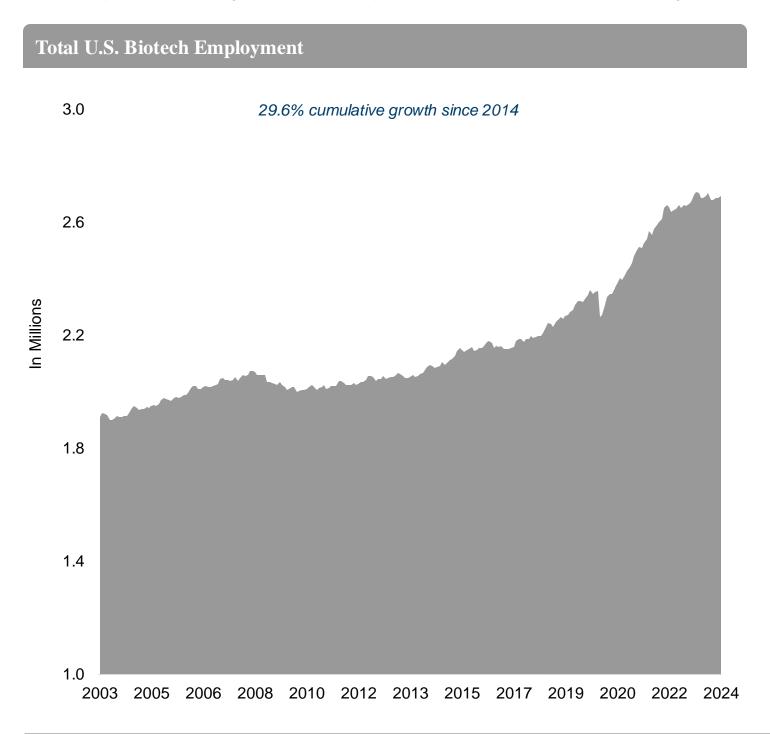
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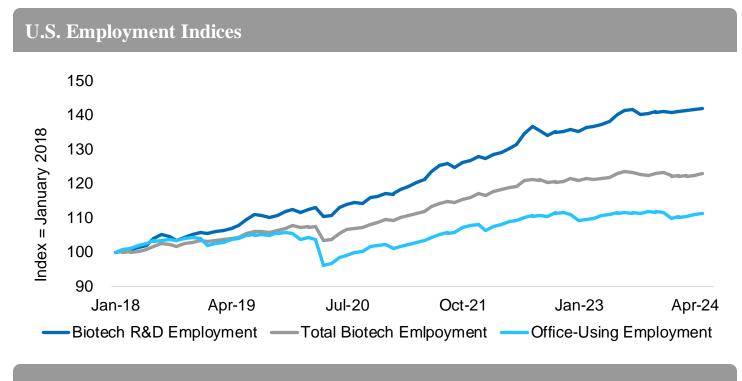
# Industry and Talent Trends

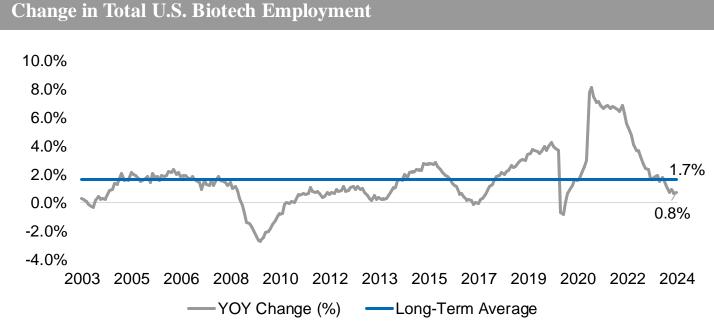


#### Amid A Broader Deceleration, R&D Employment Outperforms

The expansion in biotech employment began to accelerate in 2017, driven by growth in funding, IPO activity and real estate fundamentals in the life science sector. By mid-2023, year-over-year job growth had fallen below 2.0% for the first time since early 2021 and annual gains have continued to wane. Employment in research and development is trending similarly; however, year-over-year growth ended May at 2.8%. Both sectors are outpacing office-using employment.







Source: Moodys, BLS, Newmark Research

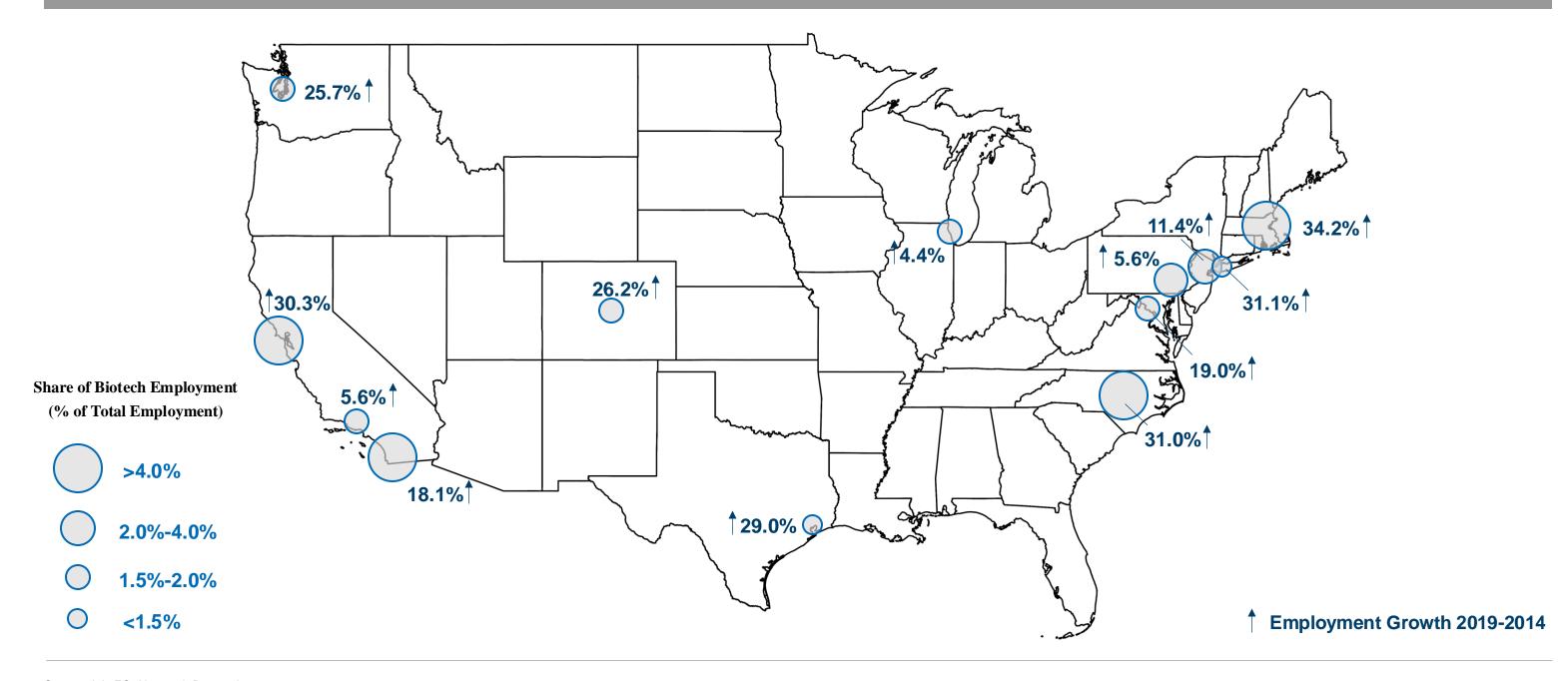
# Biotech Sector Layoffs Persist

Key Hubs Maintain High Occupation Density

#### Large Markets Also Boast Above-Average Job Gains

Labor market weakness has taken hold in several markets, leading employment growth to fall behind recent historic norms. While quarterly employment gains are abating across the board, job growth is fairing better in the secondary and tertiary markets. The top three life science clusters have posted moderate losses in recent quarters, with slight increases reported among the other 10 regions.



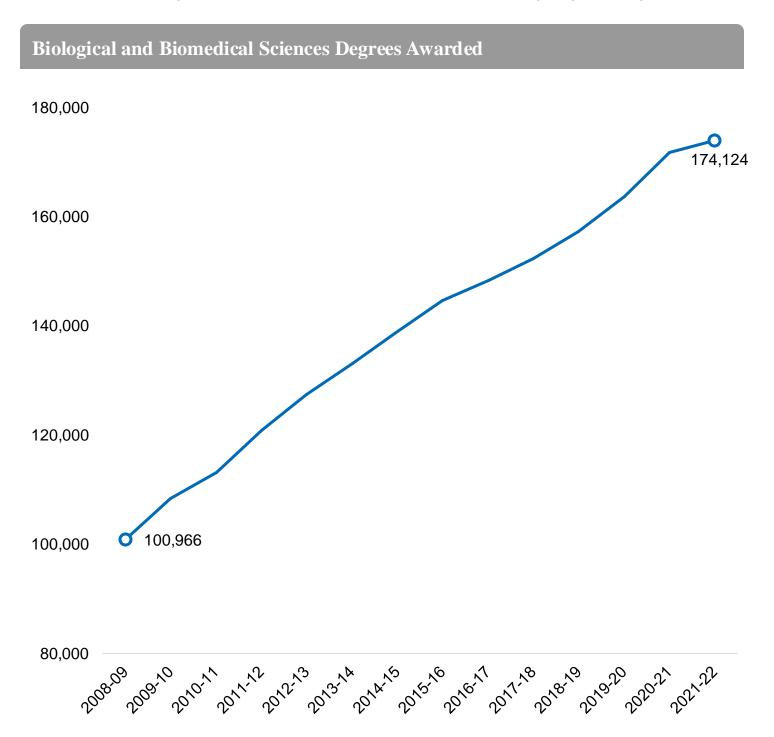


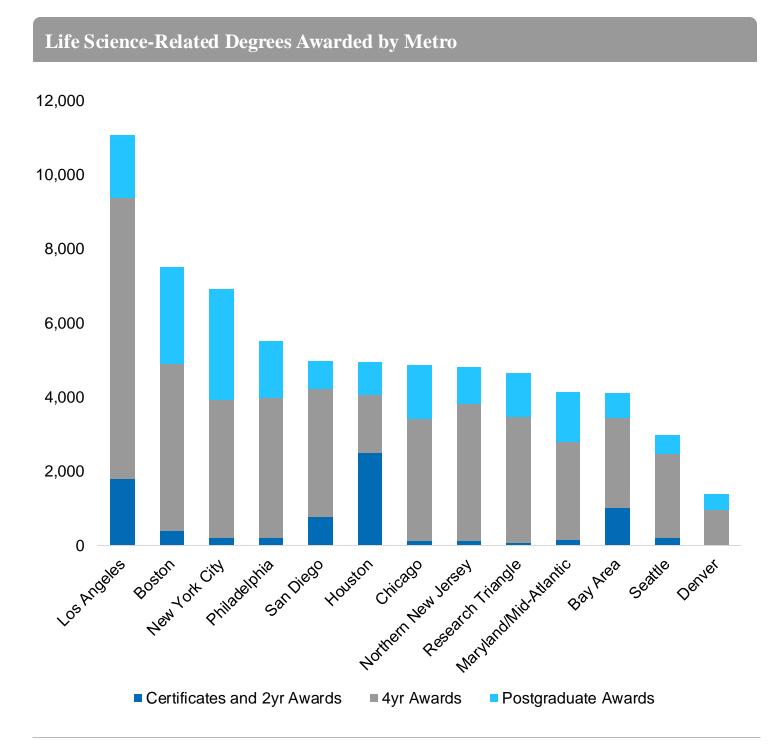
Source: JobsEQ, Newmark Research

Job Openings Have Improved in the Life Science Sector

#### Emerging Talent Remains Critical for Long-term Sector Growth

The number of biological and biomedical science degrees awarded each year continues to grow, increasing by 70.0% since 2008. The most life science-related degrees are being awarded in Los Angeles, Boston and New York City, closely aligning with significant tech transfer activity in these areas.





Source: JobsEQ, National Center for Education Statistics, Newmark Research

# Colleges and Universities Support the Talent Pipeline

The concentration of top educational institutions is vital to the life science ecosystem. To maintain a steady pipeline of qualified employees, leading markets for life science are also home to many colleges and universities that produce the most life science degrees. Notably, 20 out of the 30 top schools for life science degrees are located in major biotech hubs.





Source: Times Higher Education 2024 Rankings, Newmark Research

Despite Current Job Losses, the Outlook for Biomanufacturing is Positive

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# Market Fundamentals

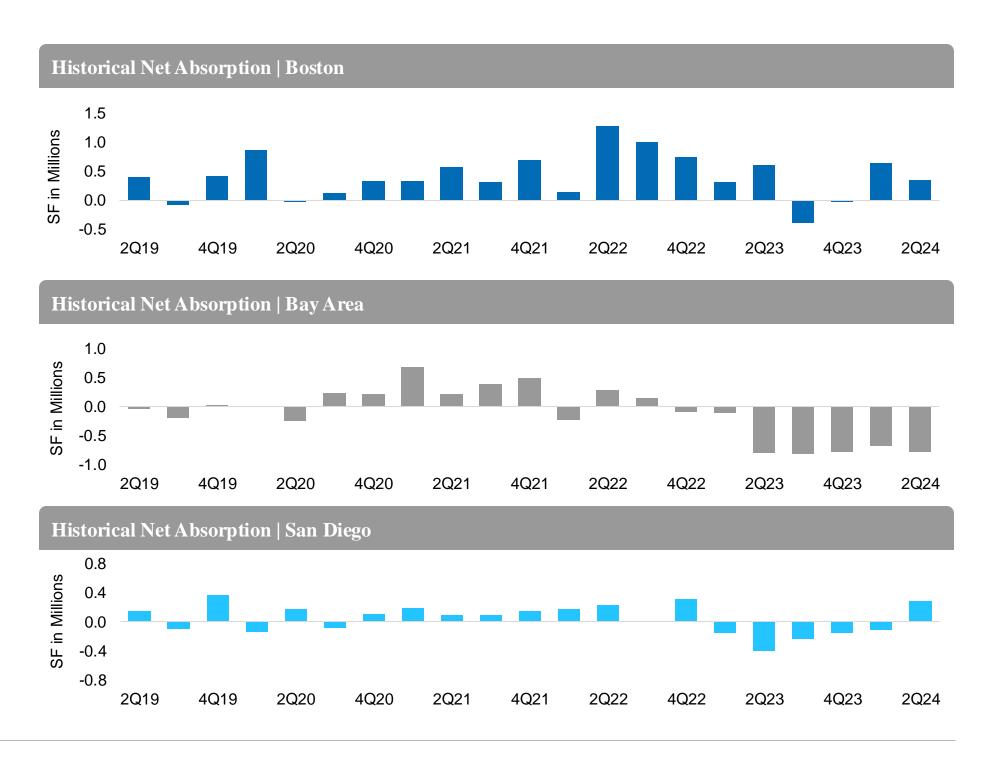


#### Life Science Demand is Slowly Improving

# Most Markets have Posted Occupancy Losses in 2024

Only four of the top 13 U.S. life science markets posted positive net absorption in the first half of 2024, with pre-leasing in new construction driving most gains in Boston and San Diego. The Bay Area continues to post the largest occupancy losses, totaling roughly 1.5 million SF during the first and second quarters of 2024.



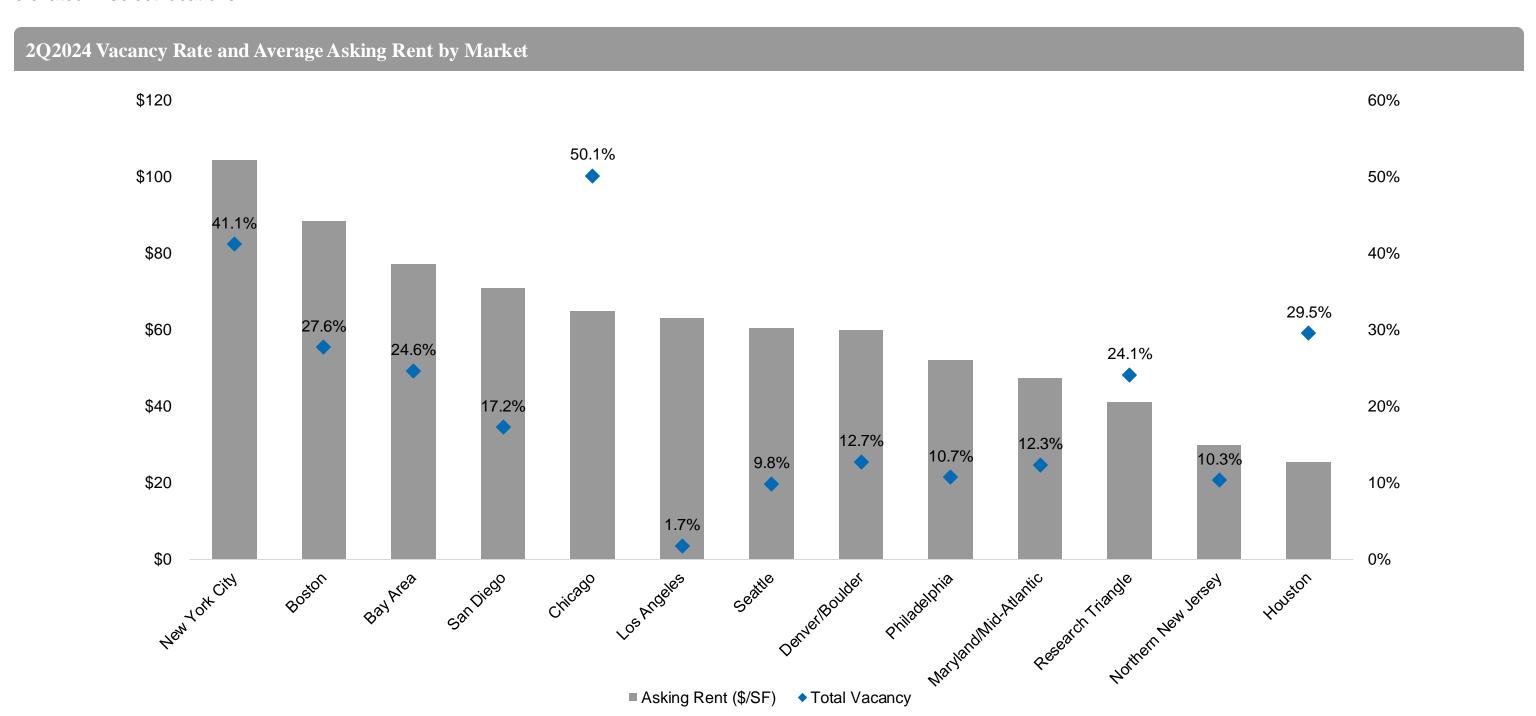


Source: Newmark Research

#### Boston Continues to Lead the Market Correction

# Fundamentals are Unwinding across Most Markets

As of the second quarter of 2024, only two key life science clusters maintained a sub-10% vacancy rate. Most markets reported significant vacancy increases compared to year-end 2023 as supply and demand continue to diverge. While softening fundamentals have also led to lower asking rents overall, premium pricing on new construction is keeping lease rates elevated in select locations.



Source: Newmark Research

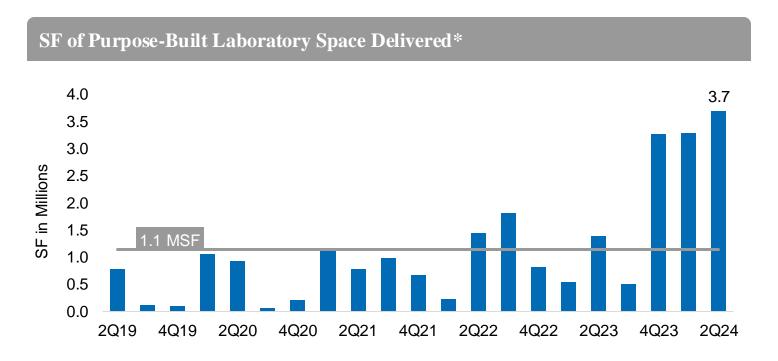
Sublease Availabilities are Rising in Several Markets

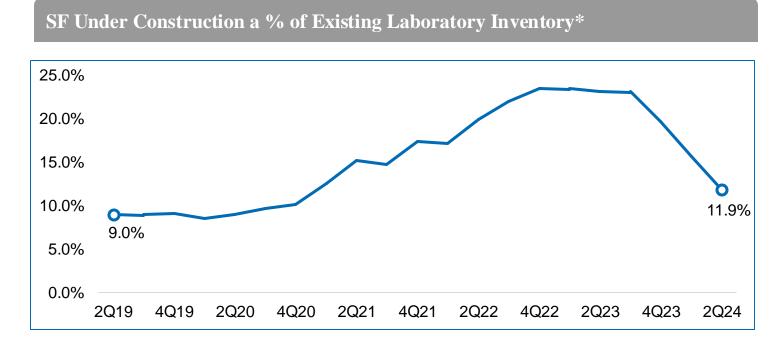
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## Record Deliveries Will Give Way to More Moderate Construction

**Key Laboratory Developments** 

The roughly 7.0 million SF of new purpose-built product delivered during the first half of 2024 in the top three U.S. life science clusters represents a historic high, surpassing annual delivery totals for 2023 by a wide margin. While future deliveries remain concentrated in these three main markets—Boston, the Bay Area, and San Diego, which account for 79% of the square footage currently under construction—developers are also active in secondary regions.





# Share of SF Under Construction 18% 30% 13% 24% Boston Bay Area San Diego New York City Philadelphia All Other



and the world

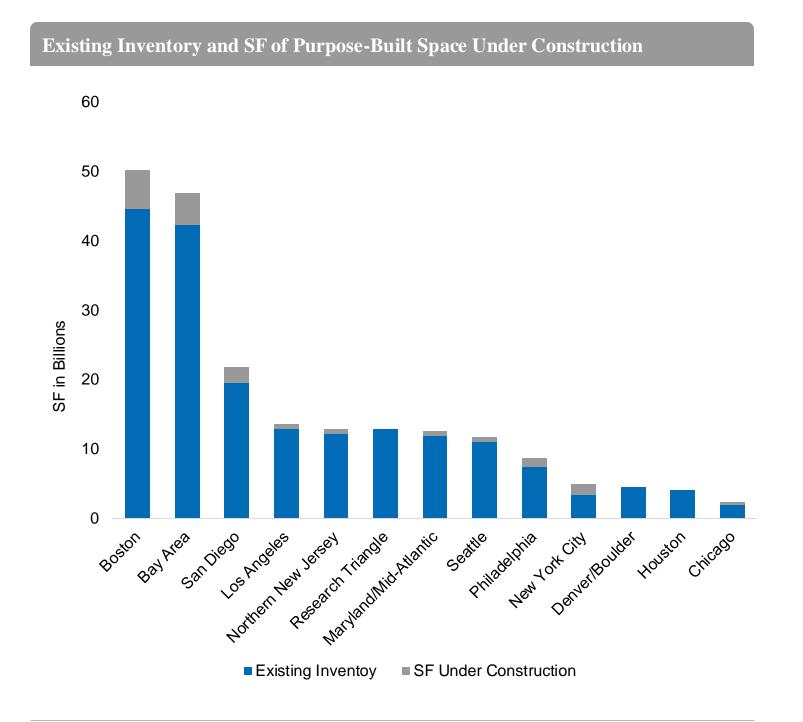
60 Guest Street	One Milestone	<b>ELCO Yards</b>	The Landing	Pacific Center
Boston Urban Edge	Boston Urban Edge	Redwood City	Burlingame	Sorrento Mesa
350,000 SF	440,000 SF	670,578 SF	503,500 SF	496,000 SF
Lendlease / Ivanhoe Cambridge	Breakthrough Properties / Tishman Speyer	IQHQ	King Street Properties / Helios Real Estate	Sterling Bay
2024	2025	2025	2025	2024

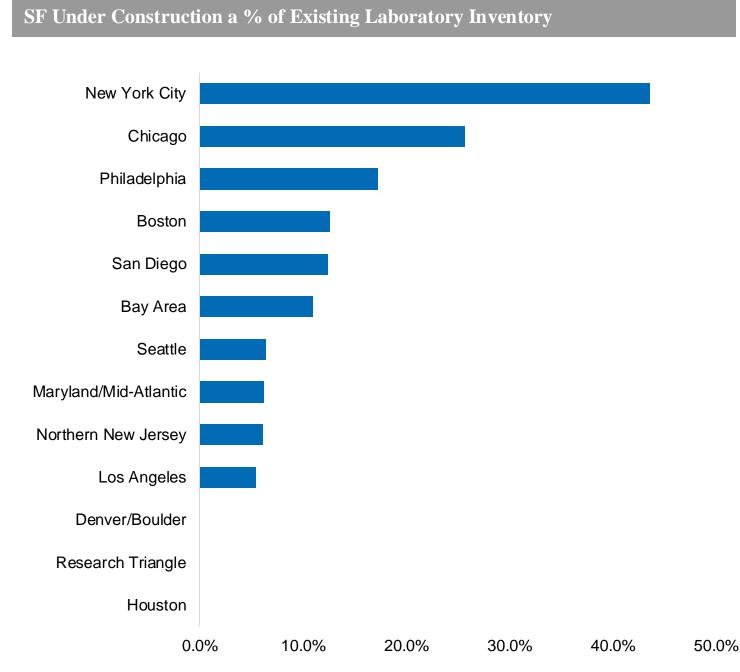
Source: Newmark Research

<sup>\*</sup>Only includes Boston, Bay Area and San Diego

## Despite Elevated Deliveries, New Life Science Development Is Abating

With several million SF of new purpose-built lab coming on line in the last six months, the amount of purpose-built laboratory space still under construction is waning. As of the second quarter of 2024, only 18.8 million SF of new supply was underway across the top 13 life science markets. The under-construction pipeline has declined by nearly 26.0% since the end of 2023.





Source: Newmark Research

New Biomanufacturing Facilities and Expansions as of Mid-Year 2024

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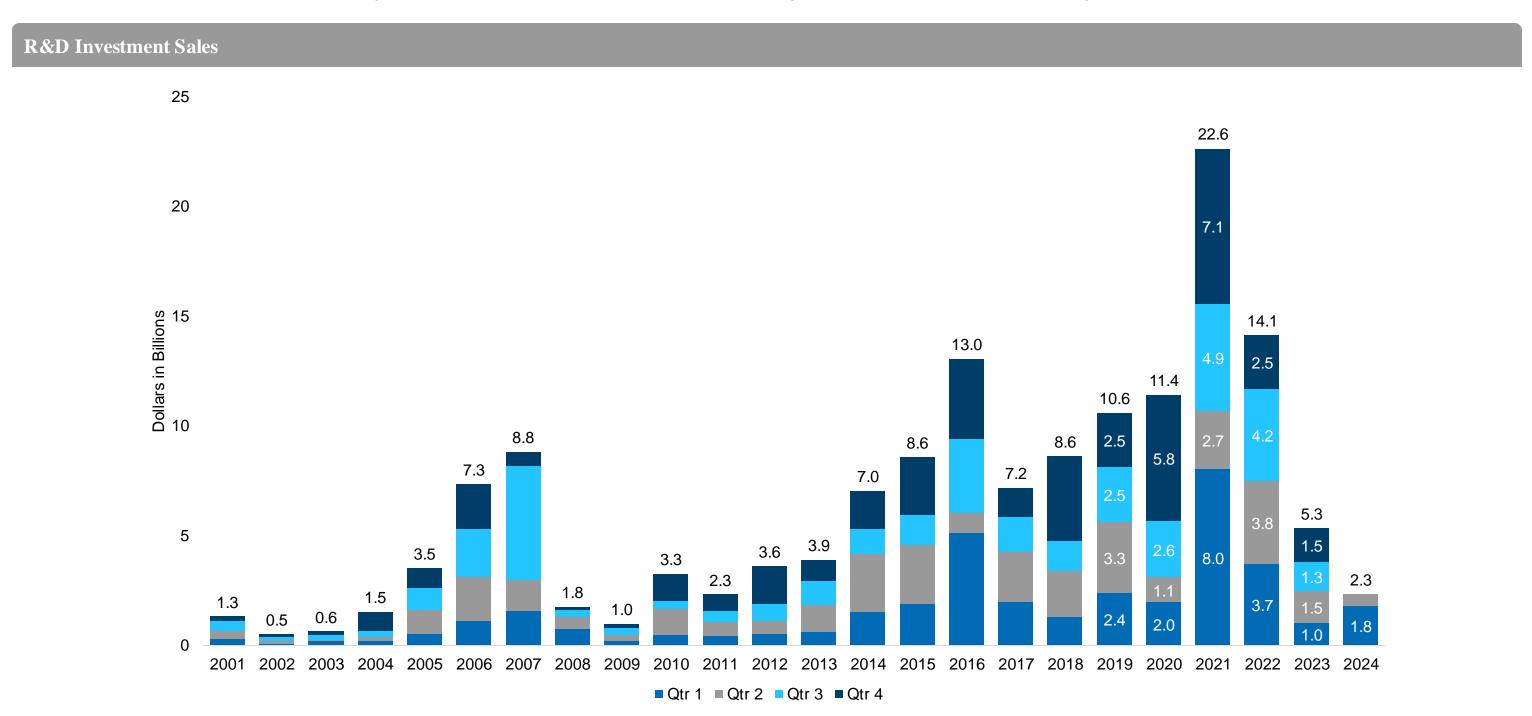
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# Capital Markets



## R&D\* Investment Sales Remained Muted in the First Half of 2024

R&D transaction activity totaled \$2.3B in 1H24, down 6% year-over-year. Sales continue to run materially below their pre-pandemic pace; activity was down 47% in 1H24 compared to the 2017-to-2019 average. Cost of capital continues to be a concern, but this is shared by all property segments. More to the point, life science markets continue to work through absorption of both new purpose-built buildings as well as conversions. Investor appetite will begin to recover as prospects for NOI growth improve.



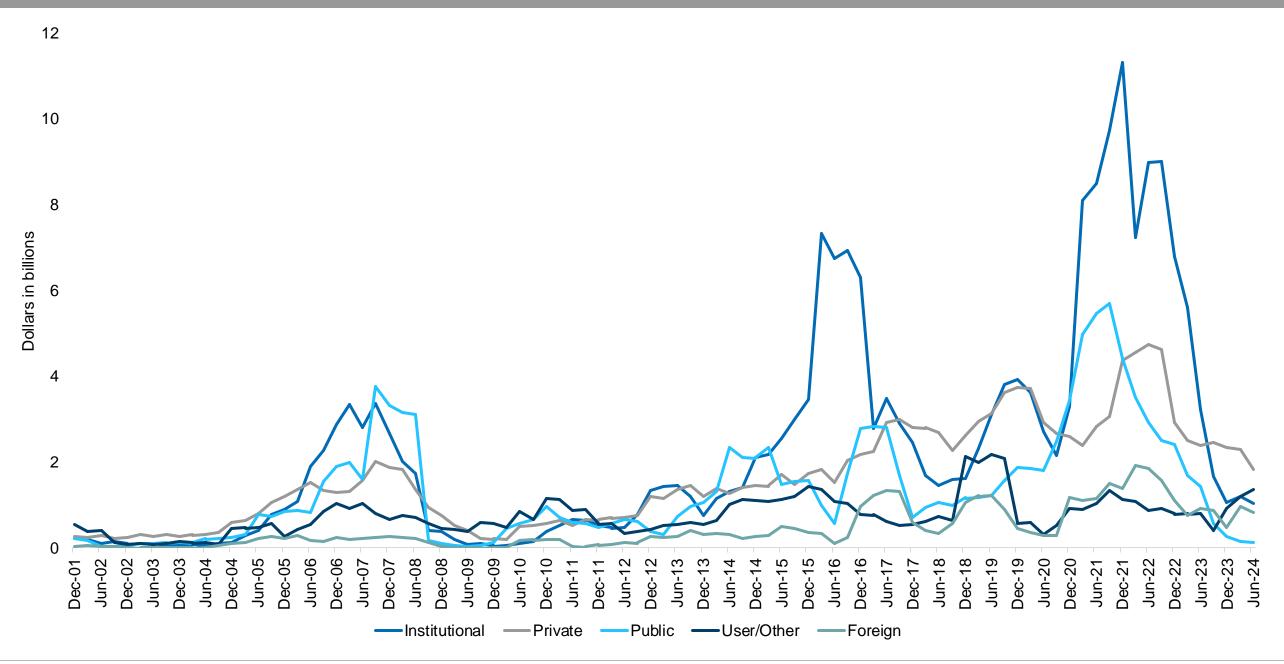
## Sales Transactions for Life Science Assets are Limited

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# Most Capital Groups Remain on Sidelines Though Some Occupiers Taking Advantage

Institutional and REIT investor demand drove the acquisitions to their 2021 peak; however, since then these groups have become very quiet, particularly REITs. Private capital acquisitions seemed to be stabilizing in 2023 at levels commensurate with pre-pandemic but have more recently decelerated. Foreign capital activity has been more stable, which coupled with weak activity from other sectors has driven the cross-border share to a new record (16% in 1H24). User acquisitions have accelerated both in nominal and share terms.



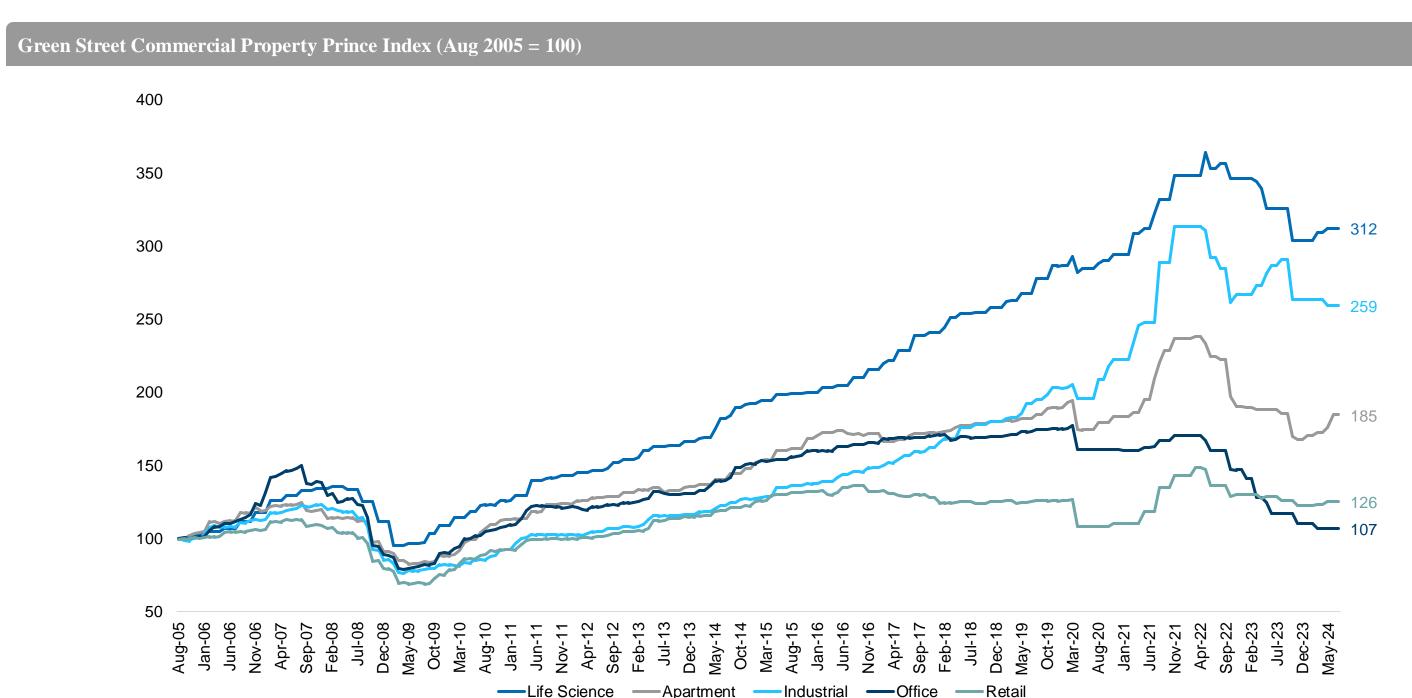


Life Science Cap Rates Have Risen Significantly

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## Life Science Has Outperformed All Other Property Types Since 2008

From 2019 to the post-pandemic peak, life science outperformed all sectors, excepting industrial, up 27.1%. Life science values are now down 14.3% from the peak, which is a better showing compared with all other property types. While this augurs poorly for the returns of investors who entered at the top of the market, these price declines are unlikely to foment the kinds of debt issues widely projected for the office and multifamily sectors. Indeed, life science values are up 8.9% compared to December 2019.



Source: Green Street, Newmark Research as of 8/19/2024

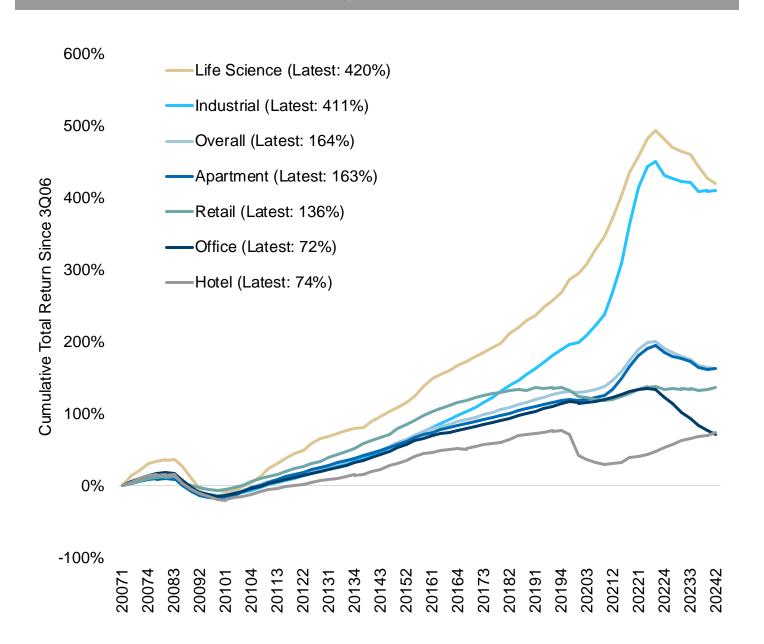
## Life Science REITs Have Underperformed in Recent Years

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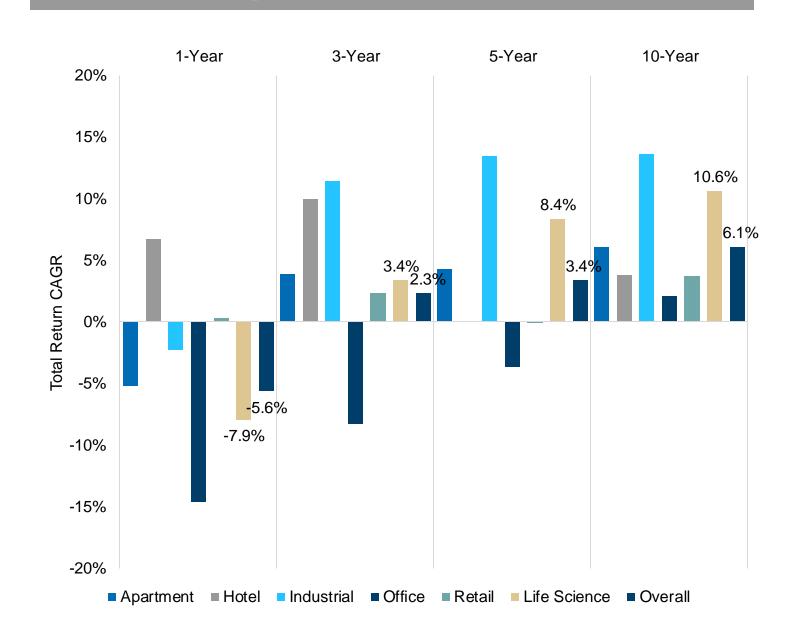
## Private Market Returns Second Only to Industrial Over Last 10 Years

Life science has generated negative total returns for the last seven quarters with a total drawdown of negative 12.5%, slightly underperforming the national property index at negative 12.3%. This performance is similar to the decline in the Life Science CPPI. Looking over longer time spans, life science has consistently outperformed most sectors in the NPI.





#### Only Industrial Has Outperformed in Last 10 Years, Returns Softened in TTM



Source: NCREIF, Newmark Research as of 8/19/2024

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# Life Science Market Profiles



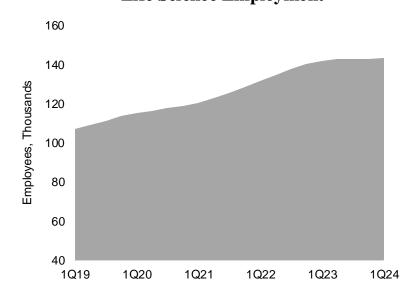
## Boston

- The supply imbalance continues to weigh on laboratory vacancy across Greater Boston, which has increased for an eighth consecutive quarter. Vacancy for laboratory space in Greater Boston is now more than five times higher than the 5.1% trough reported two years ago.
- Tenants are leasing less space for shorter terms. Average direct deal length is down by 41% from the peak and transaction sizes are off by more than 50.0%.
- Greater Boston's supply pipeline has reached a three-year low. Following the
  most robust construction cycle this market has ever seen, developers have
  pulled back on new starts. With roughly 7 million SF remaining in the pipeline,
  completions will remain elevated above historic norms for another 12 to 18
  months.

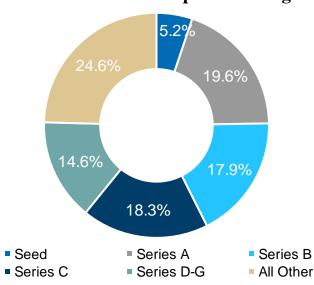
### **Select Lease Transactions**

Tenant	Building / Address	Submarket	Туре	Square Feet
AbbVie	222 Jacobs St., Cambridge	East Cambridge	Sublease	72,000
Treeline Biosciences	500 Arsenal St., Watertown	Urban Edge	Lease Expansion	45,000
Pace Analytical Services	19 Presidential Way, Watertown	Urban Edge	Lease Extension	23,777

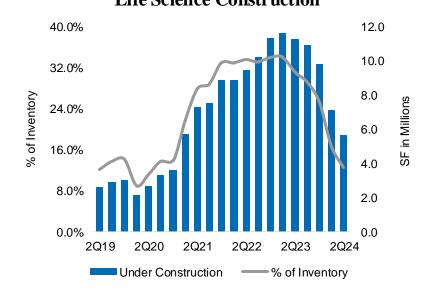
#### Life Science Employment



#### **1H2024 Venture Capital Funding**



#### **Life Science Construction**



#### **Asking Rent and Vacancy**



#### **Mid-Year Stats**

44.6 MSF Total Inventory	<b>5.6</b> Number Co	MSF nstruction	1.0 MSF YTD Net Absorption
27.6% Vacancy Rate			38.37 / SF king Rent (NNN)

#### **Top Tech Transfer Universities**

- Harvard University
- MIT
- Tufts University
- Northeastern University
- UMass Boston
- Brandeis University

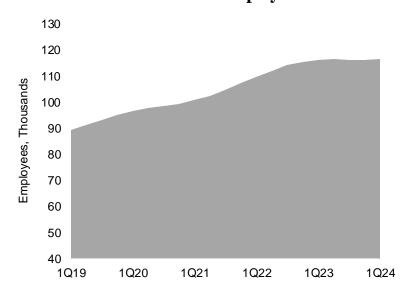
## San Francisco Bay Area

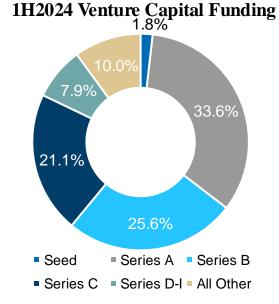
- The Bay Area life science market is currently exhibiting signs of a correction, as leasing activity has notably decreased from the height of the pandemic era. Asking rates are expected to continue to soften in the near term as landlords continue to offer elevated concessions to boost occupancy rates.
- A continued heightened focus on capital preservation by companies throughout the region in addition to a noticeable slowdown in demand for lab space has led to mass layoffs and footprint rightsizing across the Bay Area.
- Look for supply-side pressures to continue driving the availability rate upwards towards new record highs as ground-up construction and conversion product is expected to deliver over the course of the next several quarters, paving the way for a continued tenant-friendly market environment.

## **Select Lease Transactions**

Tenant	Building / Address	Submarket	Туре	Square Feet
Confidential Tenant	1300 Main St., Redwood City (ELCO Yards)	Redwood City	Direct Lease	115,000
Pulmonx	200 & 700 Chesapeake Dr. Redwood City	Redwood City	Lease Renewal	75,100
Protagonist Therapeutics	7575 & 7707 Gateway Blvd., Newark	Newark	Lease Renewal/ Expansion	60,600

#### **Life Science Employment**





## **Life Science Construction**



## Asking Rent and Availability\*



#### **Mid-Year Stats**



<sup>\*</sup> Total availability is represented instead of total vacancy since the San Francisco Bay Area Market has not historically separated vacancy and availability.

## **Top Tech Transfer Universities**

Stanford University

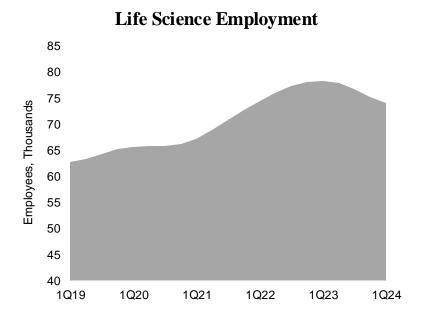
• University of California, Berkeley

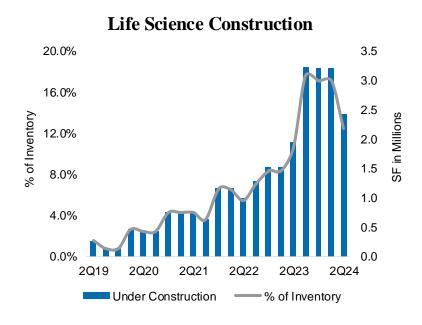
## San Diego

- Two quarters of robust venture capital and post-IPO investments have boosted the coffers of local companies and set the stage for increased tenant demand.
- Rent growth has been negative in the first half of 2024 as vacancy has climbed
  for six consecutive quarters. Leasing activity has picked up, and net absorption
  has turned positive, but it will still take several years for the market to absorb all
  the new product that has delivered and current construction projects that are set
  to deliver over the next two years.
- Nearly 2.5 million SF of new projects are under construction in the core life science submarkets and scheduled to deliver over the next two years. This new space will lead to years of elevated vacancy until the market has had time to absorb it all.

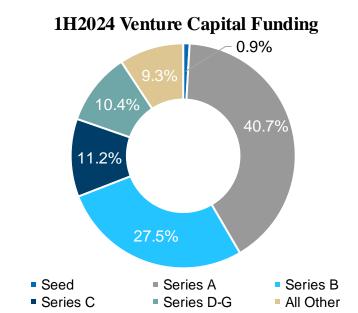
Select Lease Transactions					
Tenant	Building / Address	Submarket	Туре	Square Feet	
Bayer/Vividion Therapeutics	10075 Barnes Canyon Rd., San Diego	Sorrento Mesa	Direct Lease	127,300	
Avidity BioSciences	3020 Callan Rd., San Diego	Torrey Pines	Sublease	105,500	
BlossomHill Therapeutics	10255 Science Center Dr., San Diego	Torrey Pines	Direct Lease	46,300	

Select Sale Transac	etions				
Building / Address	Submarket	Sale Price	Price / SF	Square Feet	
3020 & 3030 Callan Rd., San Diego	Torrey Pines	\$153.4M	\$1,362	173,311	
10140 Mesa Rim Rd., San Diego	Sorrento Mesa	\$23.0M	\$541	42,547	













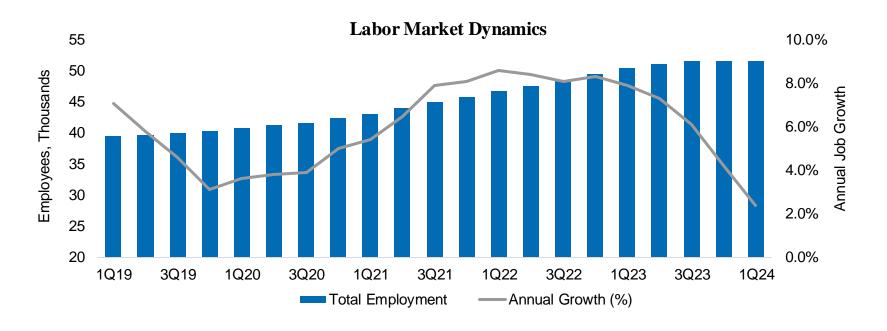
San Diego State
 University
 San Diego

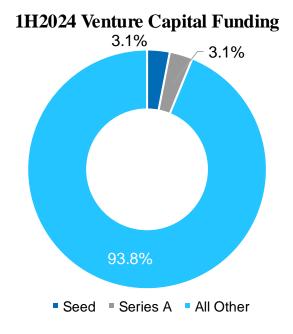
## Raleigh/Durham (Research Triangle)

- · Headwinds persist in the local life science market as vacancies continuing to expand. The majority of life science leasing is via renewals of existing tenants and speculative research and development suites, which are generally 10,000 SF or less.
- The past six months have seen significant new deliveries of quality assets, which have been almost exclusively in the cGMP/advanced manufacturing arena. Tenant interest for these assets remains varied among life science, chip and semiconductor manufacturers and other clean technology companies.
- · A sizable portion of new and expanded leases within life science parks are attributed to these non-life science users that require similar robust base building systems and infrastructure.

Select Lease	Transactions			
Tenant	Building / Address	Submarket	Туре	Square Feet
Solvias	2400 Perimeter Park Dr. Morrisville	' RTP/RDU	Direct Lease	55,000
Nhanced Semiconductor	617 Davis Dr., Morrisville	RTP/RDU	Direct Lease	54,000
EPL	4022 Stirrup Creek Dr., Durham	RTP/RDU	Lease Extension	36,000

Select Sale Transac	ctions			
Building / Address	Submarket	Sale Price	Price / SF	Square Feet
4018 Stirrup Creek Dr., Durham	Research Triangle	\$27.5M	\$288	95,620







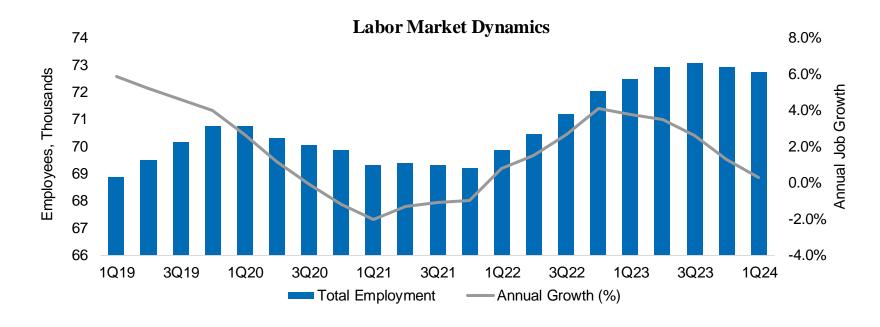
12.8 MSF Total Inventory	0 SF Under Construction	-52 KSF YTD Net Absorption	<b>24.1%</b> Vacancy Rate	\$41.00 / SF Asking Rent (NNN)

## Greater Philadelphia

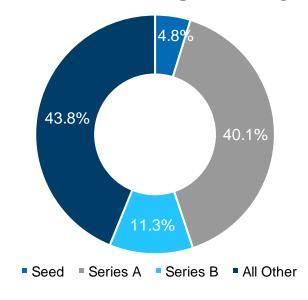
- Philadelphia's life science market has been experiencing robust growth and innovation, fueled by its strong ecosystem of academic institutions, hospitals, pharmaceutical companies, and a growing number of startups. The city benefits from a highly educated workforce, with graduates from local institutions like the University of Pennsylvania and Drexel University providing an attractive talent pool for companies in the life sciences sector.
- While venture capital funding for Philadelphia-area life sciences declined last year, 2024 has already seen notable deals, including Arrivent Biopharma's \$175 million IPO in January.
- The demand for lab space and R&D facilities in Philadelphia has surged, prompting the
  development of new complexes and the conversion of traditional office buildings into lab
  spaces. Key areas such as University City have become focal points for life science
  clusters.

Tenant	Building / Address	Submarket	Туре	Square Feet
Align Precision	425 Privet Rd., Horsham	Montgomery County	Direct Lease	86,000
DSM Biomedical	400 Devon Dr., Wayne	Chester County	Direct Lease	76,800
Wistar Institute	225 N 38 <sup>th</sup> St., Philadelphia	University City	Sublease	32,000

Select Sale Transac	etions			
Building / Address	Submarket	Sale Price	Price / SF	Square Feet
9001 Torresdale Ave., Philadelphia	Philadelphia County	\$5.3M	\$84	62,750









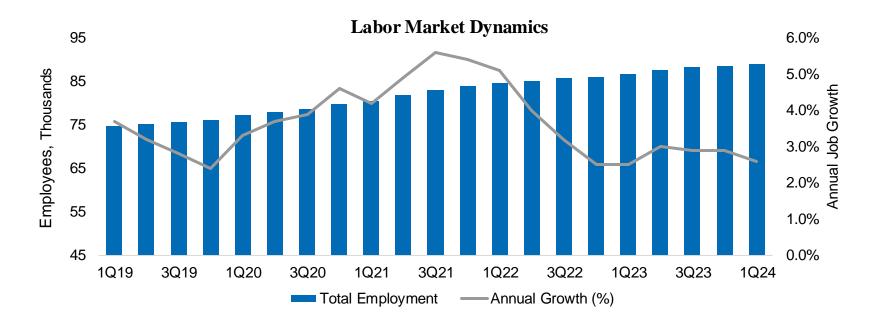
7.4 MSF Total Inventory	1.3 MSF Under Construction	-142 KSF YTD Net Absorption	10.7% Vacancy Rate	\$52.00 / SF Asking Rent (NNN)

## Maryland / Mid-Atlantic

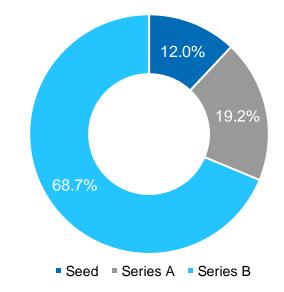
- The Mid-Atlantic life science market has experienced an oversupply of space. This has resulted in the average lease term for new leases being a little over five years; a decrease from almost 10 years in 2022. This has led to many developers in the region halting speculative construction and will only break ground once an anchor tenant is secured. This slowdown in new deliveries will give the market time for demand to catch up with the oversupply.
- Despite the slowdown, the long-term growth outlook for the Mid-Atlantic life science
  market remains positive, thanks to the region's highly educated workforce and top
  research institutions, including Johns Hopkins University and the University of Maryland.
  These institutions continue to provide a steady pipeline of highly skilled workers for the life
  science sector.
- Even with the current market slowdown, major institutions in the region are expanding.
   Montgomery County recently announced a University of Maryland-anchored project to
   build up to 3.7 million SF of life science-focused mixed-use space near the North
   Bethesda metro station.

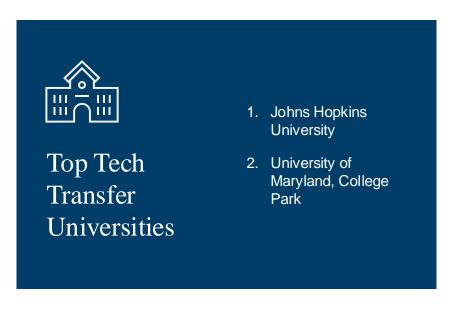
Select Lease Transactions				
Tenant	Building / Address	Submarket	Туре	Square Feet
Precision for Medicine	8440 Broadband Dr., Frederick	I-270 Corridor	Lease Expansion/Renewal	116,000
Virginia Heart	1900 Gallows Rd., Vienna	Vienna	Direct Lease	7,700

Select Sale Transact	tions			
Building / Address	Submarket	Sale Price	Price / SF	Square Feet
10301 Georgia Ave., Silver Spring	Silver Spring	\$15.3M	\$169	90,000
10521 Rosehaven St., Fairfax	Fairfax	\$6.5M	\$107	61,000
9707 Medical Center Dr., Rockville	Rockville	\$5.5M	\$137	40,200







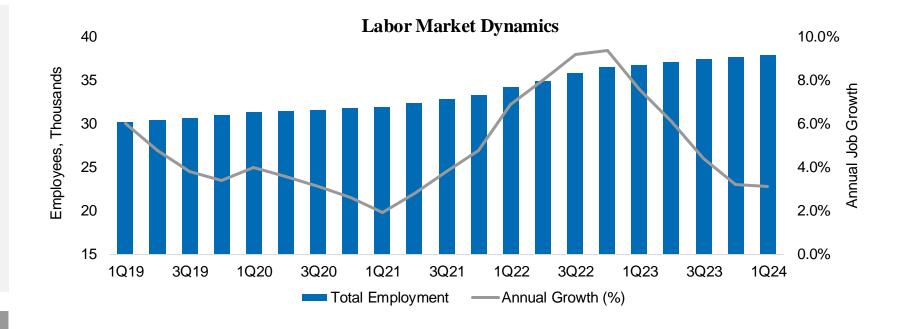


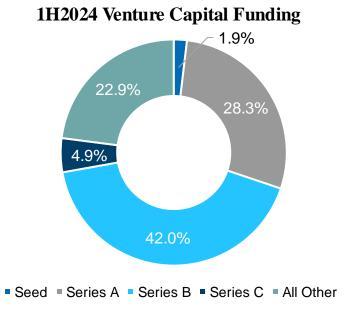
Total Inventory Under Construction YTD Net Absorption Vacancy Rate Asking Rent (NNN)	11.9 MSF Total Inventory	742 KSF Under Construction	-97 KSF YTD Net Absorption	12.3% Vacancy Rate	\$47.44 / SF Asking Rent (NNN)
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## Seattle

- Although life science demand has been muted in recent quarters, the second quarter of 2024 saw a slight uptick in tenant activity. The region experienced a modest net negative absorption of approximately 31,000 SF, with the overall vacancy rate at 9.8%.
- Rental rates for lab space in Bothell currently range from \$32-\$46/SF NNN, while Seatle's average rates range from \$65-\$85/SF NNN.
- Cascadian, an office-to-life science conversion in South Lake Union by LPC & Invesco, returned to the lender in early July 2024. The lender, KKR, acquired it for their debt value of \$161.76 million.

#### **Select Lease Transactions Building** / Square **Tenant** Submarket **Type Address Feet** Woodinville Summit Imaging Corporate Center, Woodinville/Bothell Direct Lease 31,200 Woodinville Lease Allen Institute Dexter Yard, Seattle Lake Union 24,200 Expansion Butcher's Table, Belltown/Denny BrainChild Bio Direct Lease 4,600 Seattle Regrade





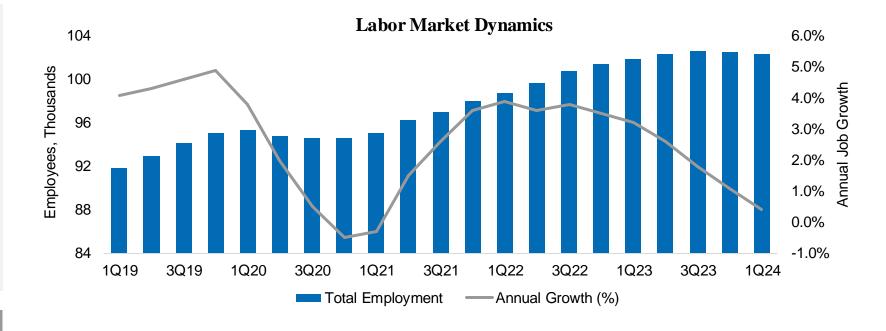


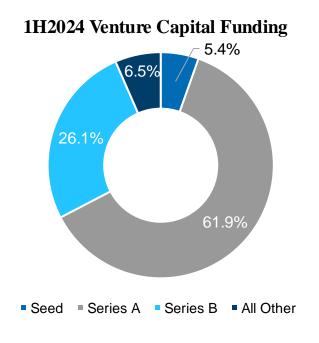
11.0 MSF Total Inventory	710 KSF Under Construction	-120 KSF YTD Net Absorption	9.8% Vacancy Rate	\$60.59 / SF Asking Rent (NNN)
rotarinventory	Onder Construction	TTD Net Absorption	vacancy reate	Asking Item (IVIVIV)

## Northern New Jersey

- · Within the state's borders reside 14 of the top 20 pharmaceutical companies and eight of the top ten research & development companies in the world.
- National economic challenges and rising interest rates have impacted the life science market in Northern New Jersey as vacancies increased by 50 basis points year over year to 10.3%.
- Office-to-lab conversions have been instrumental in addressing the demand for lab space over the last several years. Even with the new vacancies, active demand still exceeds 1 million SF.
- Construction has begun at the 400,000-SF BeiGene manufacturing campus located in the Princeton West Innovation Park in Pennington. The property is set to deliver during the first quarter of 2025.

#### **Select Lease Transactions Building** / Square **Tenant** Submarket **Type Address Feet** 301 College Rd., E. Princeton Area Lease Syneos Health 44,000 Princeton Renewal 95 Greene St., IAVI Hudson Waterfront Direct Lease 29,800 Jersey City 95 Greene St., RegenLab USA Hudson Waterfront Direct Lease 15,800 Jersey City







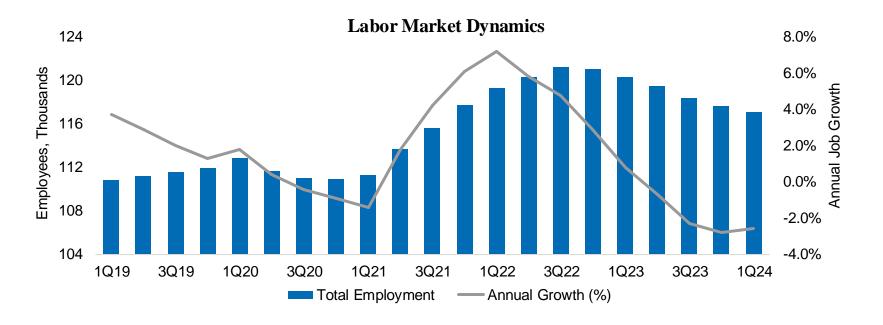
12.2 MSF Total Inventory	750 KSF	-107 KSF	10.3%	\$29.76 / SF
	Under Construction	YTD Net Absorption	Vacancy Rate	Asking Rent (NNN)

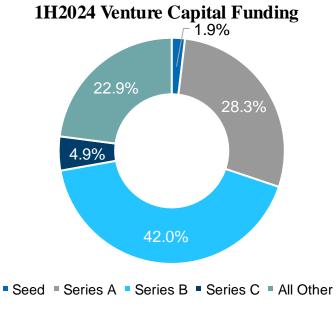
## Los Angeles – Orange County

- While the Los Angeles metropolitan area is considered an emerging life science market, it has the building blocks and momentum to become a top-tier national market. A deep, diverse and educated labor pool provides opportunities for major pharmaceutical and biotechnology companies to expand.
- Following a challenging capital markets and funding environment in 2023, companies entered 2024 with a focus on conserving capital and reducing overhead costs. Although job growth in the sector has slowed, optimism remains strong in Los Angeles's emerging markets, driven by increased M&A and partnership activity.
- Despite cautious optimism, Los Angeles life science VC funding began the first quarter with over \$600 million closed, primarily in three separate early and laterstage rounds. Activity slowed in the second guarter but continued with several smaller seed, Series A, and Series B rounds exceeding \$100 million.

Building / Address 18408-18412 Oxnard	Submarket	Туре	Square Feet
19409 19412 Ovnord			
St., Tarzana	SFV	Direct Lease	128,000
2585 Nina St., Pasadena	Pasadena	Direct Lease	18,000
150 N Orange Grove Blvd., Pasadena	Pasadena	Direct Lease	7,000
	2585 Nina St., Pasadena 150 N Orange Grove	2585 Nina St., Pasadena  150 N Orange Grove	2585 Nina St., Pasadena  Direct Lease  150 N Orange Grove Pasadena  Direct Lease

Select Sale Transaction	S			
Building / Address	Submarket	Sale Price	Price / SF	Square Feet
10800 W Pico Blvd.	Culver City	\$700M	\$1,000	700,000







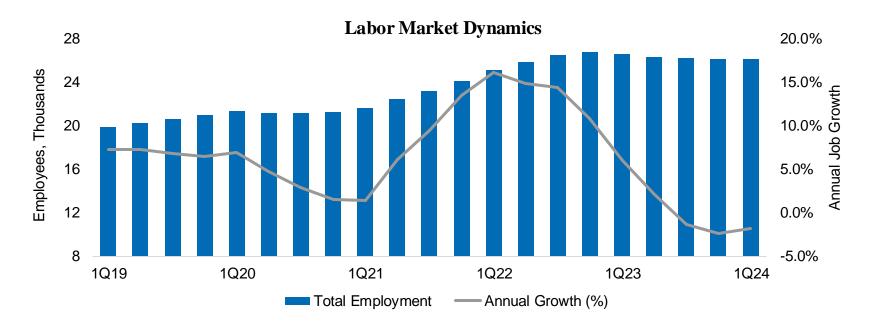
12.8 MSF	700 KSF	128 KSF	1.7%	\$63.00 / SF
Total Inventory	Under Construction	YTD Net Absorption	Vacancy Rate	Asking Rent (NNN)

## New York City

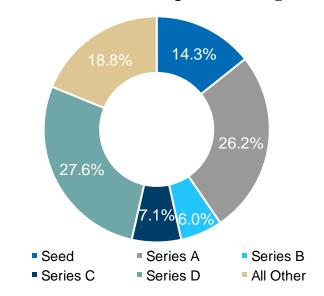
- The Chan Zuckerberg Initiative announced the opening of a new Biohub in NYC.
   CZ Biohub NY will be housed on Columbia University's campus and will include
   collaborative efforts from Columbia University, The Rockefeller University and
   Yale University. The City and State of New York are each contributing \$10 million
   in funding to the efforts.
- Harlem Biospace announced they will open a second location in the West Harlem Innovation District, providing additional incubator space for the growing life sciences market in NYC.
- The City and State announced a public/private partnership called SPARC Kips Bay, a new 1.5-million-SF hub that will encompass a full city block for life science, academic and medical use. The project is expected to create 10,000 jobs over the next 30 years, generating a \$25 billion impact to the city.

## Select Lease Transactions

Tenant	Building / Address	Submarket	Туре	Square Feet
Graviton Bioscience	125 West End Ave., New York	Upper West Side	Direct Lease	30,000



#### **1H2024 Venture Capital Funding**





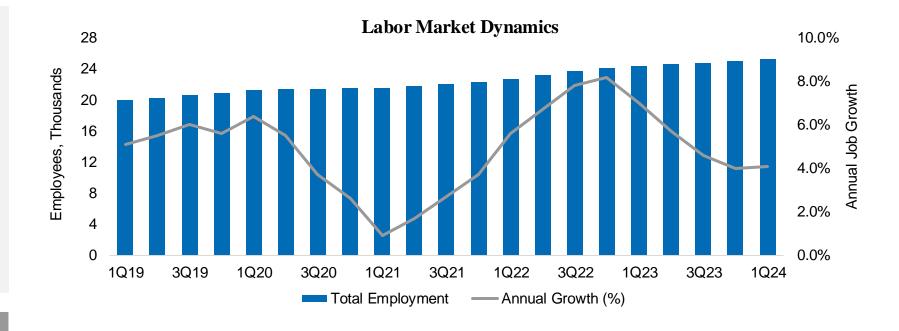
3.4 MSF Total Inventory	1.5 MSF Under Construction	-12 KSF YTD Net Absorption	41.1% Vacancy Rate	\$104.34 / SF Asking Rent (NNN)
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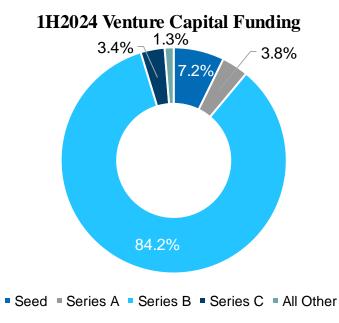
## Denver/Boulder

- Over \$1.2 billion was raised by Colorado Life Science Companies in Q1 and Q2 2024, nearly reaching the totals of 2023 (\$1.47B) and 2022 (\$1.6B) and potentially on pace to reach 2021's \$2.4 billion raise.
- In the second quarter of 2024, Enveda Biosciences added \$55 million to its \$119 million Series B fundraising round completed in 2023, as the company prepares to begin several clinical trials in the coming quarters.
- BioMed Realty delivered 5505 Central, a 63,000-square-foot purpose-built lab building in Boulder's Flatiron Park, which was delivered in lab shell condition and is ready for tenant improvements.
- Pfizer announced it will close its 160,000-SF Boulder R&D facility. The property was purchased by Invesco in December 2020 for \$99 million (\$612/SF) and the property will offer the largest contiguous block of lab space in the Denver/Boulder market.

## Select Lease Transactions

Tenant	Building / Address	Submarket	Туре	Square Feet
Integrated DNA Technologies	2425-2555 55 <sup>th</sup> St., Boulder	Boulder	Lease Renewal/ Expansion	48,000
BioLoomics	2425-2555 55 <sup>th</sup> St., Boulder	Boulder	Direct Lease	13,300







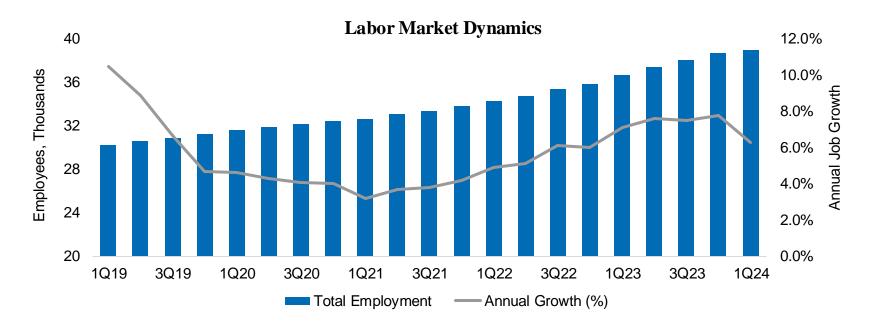
4.5 MSF Total Inventory	0 SF	-182 KSF	12.7%	\$60.00 / SF
	Under Construction	YTD Net Absorption	Vacancy Rate	Asking Rent (NNN)

## Houston

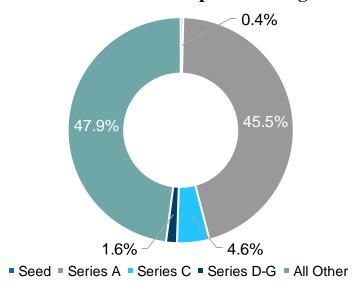
- Emerging biotechnology and regenerative science company PranaX recently signed a lease at the newly built Levit Green Phase I in the Texas Medical Center. PranaX will occupy 7,400 SF of turn-key lab space on the second floor and will also build an ISO-7 clean room.
- Howard Hughes and Vitrian have announced a joint venture called The Woodlands Innovation District, which aims to attract additional biomanufacturers to the area. The Woodlands Innovation District will include five sites ranging from 40,000 to over 200,000 SF, with spaces expected to be move-in ready for tenants by spring 2025. Existing life science companies in The Woodlands include Cellipoint Bioservices, VGXI, and MilliporeSigma.

## **Select Lease Transactions**

Tenant	Building / Address	Submarket	Туре	Square Feet
Houston Methodist	1840 Dynamic Way, Houston	South Main/ Medical Center	Direct Lease	75,800
PranaX	3131 Holcombe Blvd., Houston	South Main/ Medical Center	Direct Lease	7,400



#### 1H2024 Venture Capital Funding

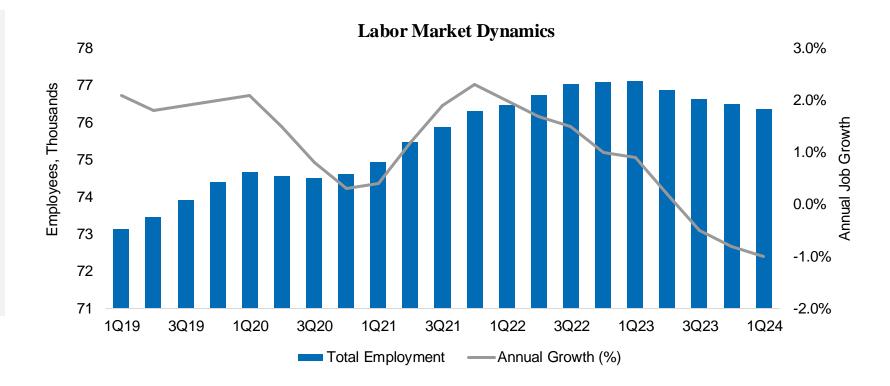




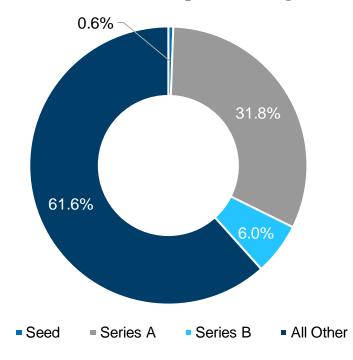
4.0 MSF Total Inventory	0 SF	-35 KSF	29.5%	\$25.40 / SF
	Under Construction	YTD Net Absorption	Vacancy Rate	Asking Rent (NNN)

## Chicago

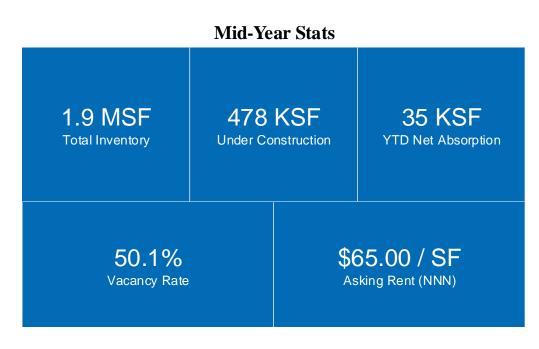
- Demand for life science space in Chicago remains slow, with a recent announcement indicating that a proposed life science development in Fulton Market will pivot to apartments instead.
- In the suburbs, American Landmark Properties has placed the last parcel of land at their Illinois Science & Technology Park up for sale.



#### **1H2024 Venture Capital Funding**







*For more information:* 

**Liz Berthelette** Research Director Life Science Research

elizabeth.berthelette@nmrk.com brent.don@nmrk.com

**Brent Don** Research Manager San Diego Life Science Research Bay Area Life Science Research

**Chris Teranishi** Senior Market Analyst chris.teranishi@nmrk.com

**David Bitner** Executive Managing Director Global Head of Research david.bitner@nmrk.com

**Jonathan Mazur** Executive Managing Director National Research jonathan.mazur@nmrk.com

**New York Headquarters** 125 Park Avenue New York, NY 10017 t 212-372-2000

nmrk.com

