

**AVISON  
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# Life sciences report

4Q 2020

Raleigh-Durham



# Overview

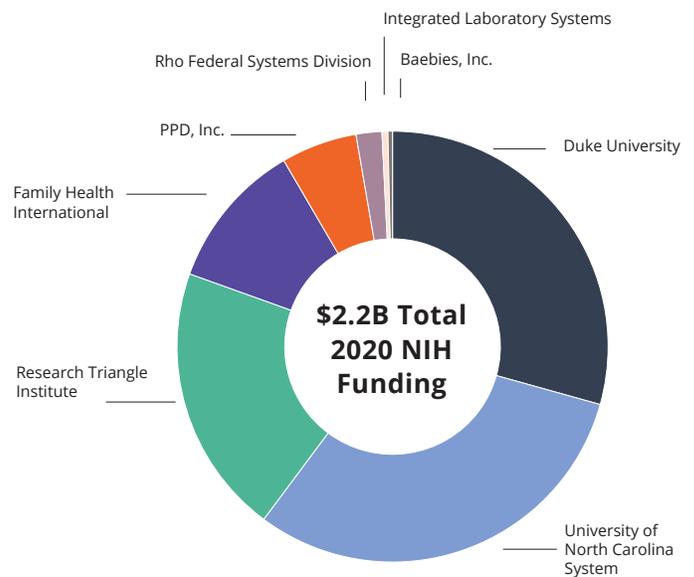
North Carolina is home to 775 life science companies, and with steady long-term growth, the industry employs more than 67,000 North Carolinians. The sector continues to be a major economic driver for the state and Raleigh-Durham region. The solid relationship between educational and private institutions have facilitated the recruitment and retainment of talent across the area. North Carolina leads the country in vaccine manufacturing and now has the world's largest concentration of contract research organizations. North Carolina is one of just 10 states with a "specialized" employment concentration

**Approximately 75% of North Carolina's life science companies are based in the Raleigh-Durham region.**

in three or more life science sub-sectors. The Raleigh-Durham region's rich talent pool, strong economic fundamentals and proximity to universities have attracted major companies to the area. Research Triangle Park is the largest research park in North America and is home to industry leaders such as Syngenta, Bayer, IQVIA and Biogen. As the world grapples with the COVID-19 pandemic—the biggest public health crisis in a century—biotech employment is increasing and the Triangle region is experiencing heavy demand for biomanufacturing and lab space.

In the U.S., employment of life, physical and social science occupations is projected to grow 5% between 2019 and 2029, which will result in approximately 68,200 occupational openings in the sector. Steady growth in life sciences has acted as a buffer during the past two recessions, where in both instances the region's private sector employment declined while the life sciences industry grew. In the combined Triangle MSA, research and development employment grew 4.4% year-over-year (3Q19-3Q20), the highest employment growth percentage among all life science industry sectors in the region.

**Notable NIH Funding by Organization (2020)**



## Why the Triangle?



Low cost of doing business



Minimal regulatory hurdles

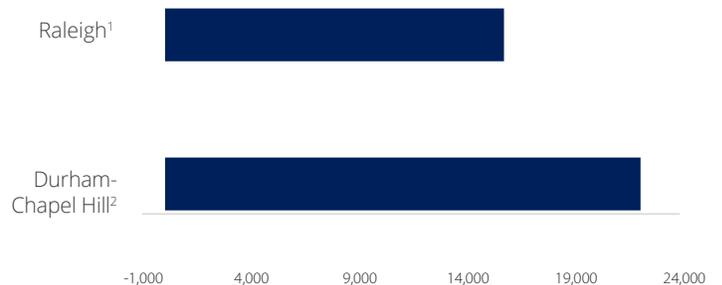


Some of the biggest names in biotech, agriculture and contract research



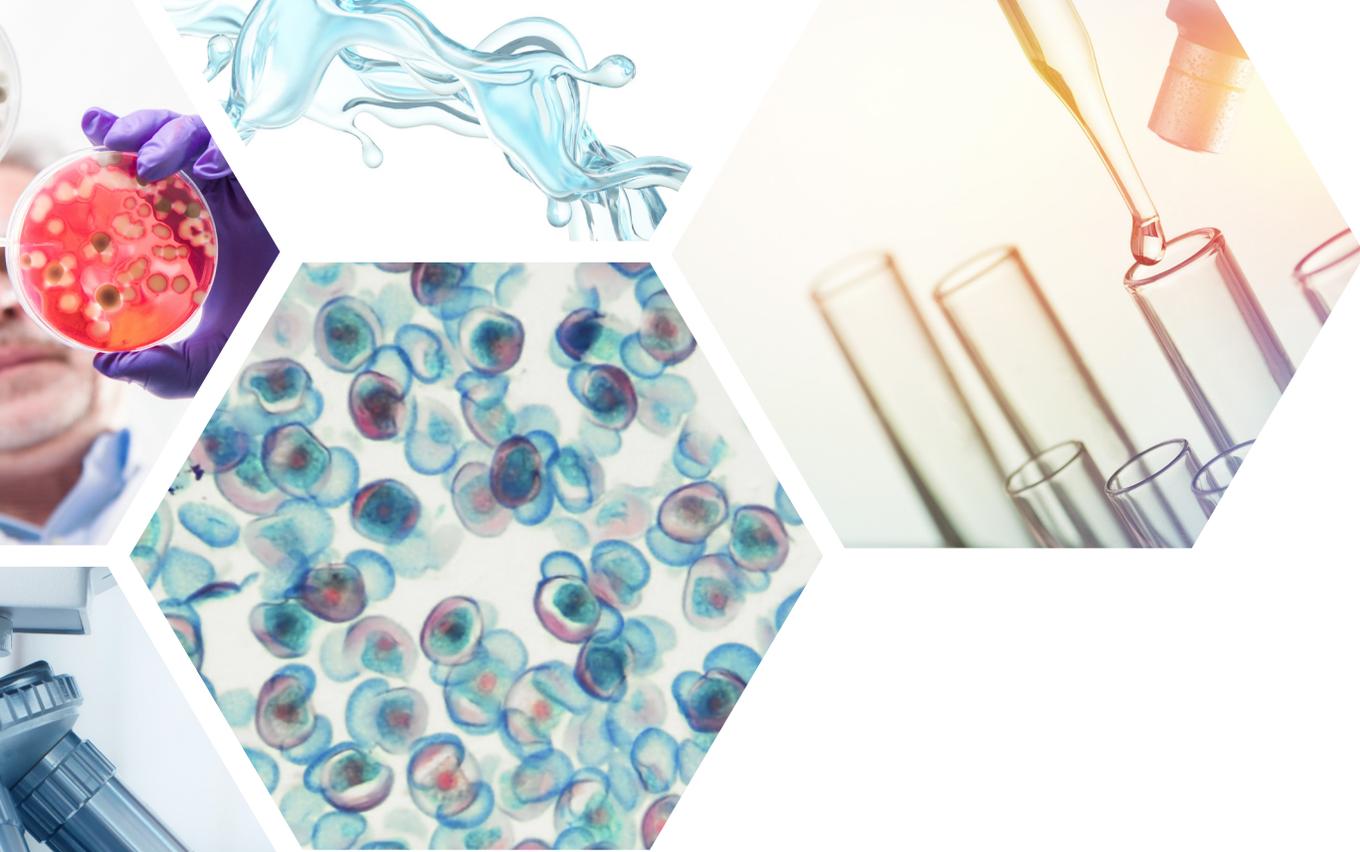
Access to talent from three R1 universities

**Life Science Employment by MSA (3Q20)**



<sup>1</sup>Wake, Johnston and Franklin Counties

<sup>2</sup>Durham, Orange, Chatham, Granville and Person Counties



## Facts and Figures

**591 life science sites**

**31,000+ employees in the Triangle**

**\$10B contribution to Gross Regional Product**

**9.7M+ SF of life science inventory in the Triangle**

**4.8M+ SF of life science inventory in the pipeline**

**\$84B NC economic impact from life science industry**



**Biogen, a top-25 global pharmaceutical company, announced a \$200M investment to build a 175,000-sf facility to support clinical production for its gene therapy pipeline. Biogen plans to add 90 more workers to its workforce of approximately 1,900 people at its two facilities in Research Triangle Park.**

## R&D Grants

Twenty-nine technology companies across North Carolina have received grants totaling \$1.5 million to foster job creation and promote research and technological development in response to the COVID-19 pandemic. More than half of these companies are in the life sciences sector.

**#4 Highest concentration of PhDs**

**#4 for life science VC funding**

**#7 in new life science talent**

## Life science trends

- Increased demand for life science product is creating interest in conversion of commercial office buildings to lab space. Some of the most promising conversion opportunities include traditional office buildings that are anchored by research universities with direct access to a steady pipeline of STEM graduates.
- Biotechnology is the most research-intensive industry in the U.S. economy, with spending accounting for 25.7% of total life science revenue.
- U.S. life science investment sales volume reached nearly \$4 billion in the fourth quarter of 2020 alone. As COVID-19 negatively impacted volume across all property sectors in early 2020, investors pivoted towards product recognized as being more resilient.

## University stats (fiscal year 2020)

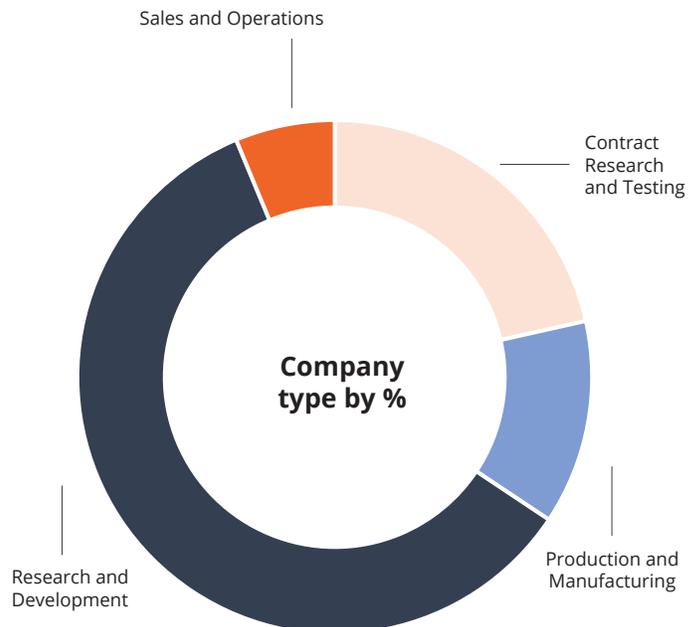
The concentration of higher education in the region produces more than 5,100 STEM graduates each year.

### Duke University

\$607 million in NIH Funding through 931 awards

### University of North Carolina at Chapel Hill

\$511 million in NIH Funding through 984 awards



**North Carolina's life sciences manufacturing jobs rose 11% during the COVID-19 pandemic. The annual year-end analysis by the North Carolina Biotechnology Center's Life Science Intelligence Team reported that 30,181 people were employed in production and manufacturing companies at year-end 2020, up 10.2% from the previous year.**

## Notable tenant activity / last 12 months

PROPERTY	TENANT	ACTIVITY
Parmer RTP	Eli Lilly	Purchased 110 acres for a pharma manufacturing facility.
Parmer RTP	Duke University	In addition to 140,000 sf already occupied by the University at the campus, the 275,000 sf leased in 2Q20 will house the Duke Human Vaccine Institute.
Patriot Park	Taysha Gene Therapies	Dallas-based Taysha Gene Therapies announced they have leased 187,500 sf at Patriot Park in the Research Triangle Park submarket. Taysha plans a \$75M capital investment for a 200-job manufacturing operation in Durham.

## Notable sales / last 12 months

PROPERTY	TOTAL SF	BUYER	SELLER	PRICE (\$M)
*Parmer RTP, Parmer Ellis, Parmer 14	2,367,053	Alexandria RE Equities	Karlin Real Estate	\$615
Keystone Technology Park	1,338,495	Longfellow RE Partners	Bain Capital	\$405
Durham.ID	330,274	Longfellow RE Partners	Bain Capital	\$138
*Perimeter's Edge Portfolio	398,988	Longfellow RE Partners	Singerman Real Estate	\$65
*Center for Innovation & Technology	104,998	Ventas	Keystone Corp.	\$53
Bradford & Berrington Center	224,779	Alidade Capital	Crown Realty	\$41
Park Point	655,700	Trinity Capital Advisors	Zurich Alternative	\$37
*Keystone Science Center	70,446	Ventas	Keystone Corp.	\$27
The Labs at Research Triangle Park	69,059	Thor Equities	Triangle Service Center	\$21

\*Portfolio Sale

# Notable R&D Space

## West Raleigh

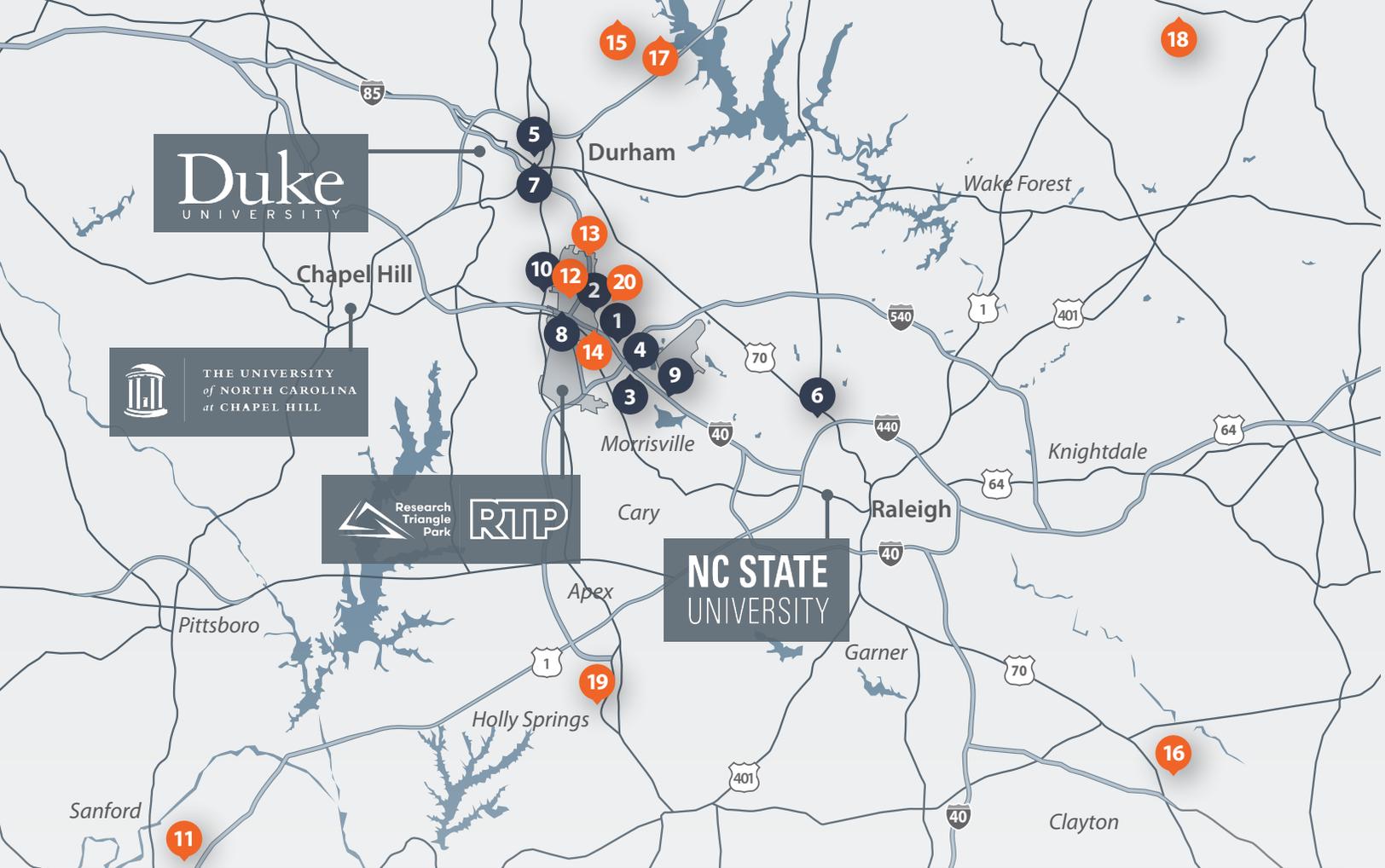
PROPERTY	YEAR BUILT	TOTAL RBA (SF)	% LEASED
Alliance Center	2015	292,955	100%
Biomedical Partnership Center	2017	44,835	100%
Center for Technology & Innovation	2017	104,988	100%
Keystone Centennial Science Center	2010	70,446	100%
Partners Bldg I	1996	81,352	96%
Partners Building II	1999	59,131	100%
Poulton Innovation Center	1991	68,896	100%
Research Bldg IV	1996	75,571	100%
Venture Center	1998	482,692	94%

## Research Triangle Park

PROPERTY	YEAR BUILT	TOTAL RBA (SF)	% LEASED
110 TW Alexander Drive	2000	158,417	100%
15 TW Alexander Drive	1978	43,760	100%
2525 E NC Highway 54	1996	82,996	100%
400 at The Frontier	1980	56,337	95%
5 Triangle Drive	1981	32,120	100%
6040 George Watts Hill Dr	2015	61,547	100%
6-8 Davis Drive	1979	100,000	95%
9 Laboratory Drive	Under Const.	160,000	0%
Alexander Industrial Park	2018	99,960	100%
Alexandria Center for AgTech	1984/2019	175,000	100%
Alexandria Innovation Center	1994	135,677	99%
Alexandria Technology Center - Alsto	1985	186,870	97%
Bayer CropScience Innovation Center	2000	158,721	100%
BioPoint	1998	148,989	100%
Bradford/Berrington Center	1999	224,779	100%
Discovery at Perimeter Park	1999	399,072	58%
First Flight Venture Center	1991	52,622	100%
INQ	2020	140,302	20%
Keystone Technology Park	1997/2009	954,041	91%
Lab Corp. I & II	1988	185,072	100%
Newcastle North	1987	120,426	100%
Park Point	Under Const.	324,000	0%
Parmer 14	1984	262,667	42%
Parmer Ellis	1992	365,366	100%
Parmer RTP	1989	1,681,710	79%
Patriot Drive Sciences Center	1984/2001	50,884	100%
Patriot Park	1989	375,000	100%
Venture at Imperial Center	1988	138,337	100%

## Downtown Durham

PROPERTY	YEAR BUILT	TOTAL RBA (SF)	% LEASED
Durham.ID	2018	330,274	77%
Durham Carmichael Building	2013	114,600	100%
The Chesterfield	2017	286,000	99%
Venable Center	2006	74,438	100%



**MAP COMPANY TRIANGLE EMPLOYEES NC EMPLOYEES**

MAP	COMPANY	TRIANGLE EMPLOYEES	NC EMPLOYEES
<b>● LARGEST CRO'S BY NUMBERS OF EMPLOYEES</b>			
1	IQVIA	5,143	5,353
2	RTI International	2,274	NA
3	PPD	2,000	3,500
4	Syneos Health	1,680	1,804
5	Duke Clinical Research	1,090	1,090
6	PRA Health Sciences	800	900
7	FHI 360	440	440
8	Rho	350	350
9	Charles River Laboratories	300	300
10	Paraxel	300	700
<b>● LARGEST LIFE SCIENCE EMPLOYERS</b>			
11	Pfizer	3,610	3,846
12	Grifols	2,183	2,632
13	GSK	1,900	2,000
14	BASF	1,769	2,000
15	bioMerieux, Inc.	1,200	1,200
16	Novo Nordisk	1,200	1,200
17	Merck	862	1,379
18	Novozymes	680	680
19	Seqirus	550	550
20	Syngenta	500	1,200

# Life Science Clusters

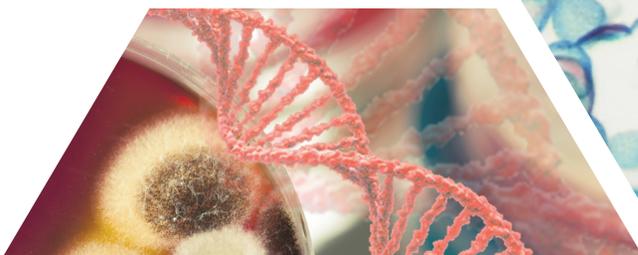
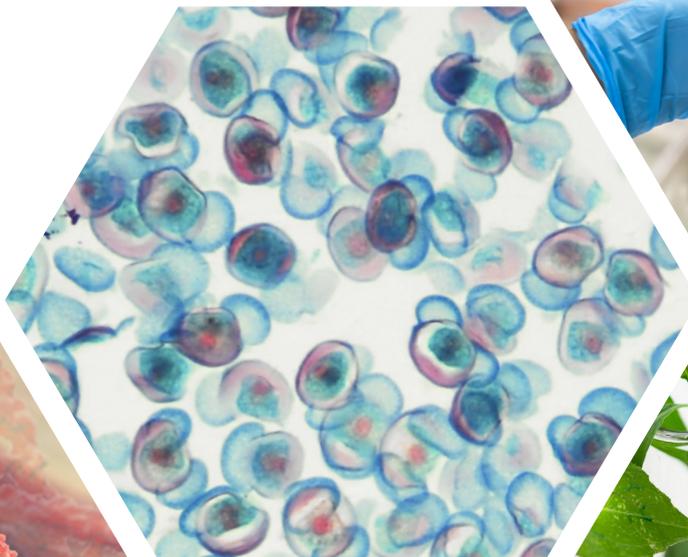
## Research Triangle Park

Research Triangle Park is the largest research park in North America. Founded in 1959, the park's 7,000 acres are home to over 75% of North Carolina's life science companies. The nation's first state-funded non-profits promoting life sciences and microelectronics—the North Carolina Biotechnology Center and the Microelectronics Center for North Carolina—were established in RTP. NC Biotech has become North Carolina's go-to life science resource, supporting the region's ideas, research and universities, and offering millions of dollars in North Carolina biotech grants and loans.

More than 560 life science companies are located in RTP, ranging from global corporations to start-ups. Major industries include pharmaceuticals, agtech, cleantech, advanced manufacturing and technology. RTP is a major hub for life science talent due in large part to the region's academic institutions, which attract more than \$3 billion in federal R&D funding each year.

In early 2021, Longfellow Real Estate Partners announced the acquisition of a 20-acre property adjacent to its existing Discovery at Perimeter Park campus with plans to develop a 480,000-sf lab development. Longfellow's plans include four lab buildings, each comprising 120,000 sf. The new project will bring Longfellow's North Carolina portfolio to nearly 3 million sf, doubling its footprint in the state.

Global biotech company, Biogen, will grow its presence in the Triangle with a \$200-million investment in a new gene therapy manufacturing facility. Biogen chose the Triangle region for its diverse talent pool, citing the company's 26-year track record of successfully recruiting top-tier employees in North Carolina.



## Downtown Durham

Downtown Durham continues to entice life science companies and offers tenants an innovative and collaborative urban environment.

Durham.ID, developed by Longfellow Real Estate Partners, has a large presence in Downtown Durham, providing lab, office, residential and retail space. The adaptive reuse development has 115,000 sf of existing lab space and 490,000 sf of office space. Once complete, the master plan will offer 1.7 msf, including 900,000 sf of new office and lab space. Major occupiers range from Duke University tenants such as Duke Clinical Research Institute and Duke Molecular Physiology Institute, to large private companies such as Nutanix and Measurement, Inc. The former WeWork space at 300 Morris Street will be converted to 100,000 sf of state-of-the-art lab space by summer 2021.

The Chesterfield building, a redeveloped former Liggett Myers manufacturing plant, serves as Wexford Science + Technology's 286,000-sf office, lab and technology space. In partnership with Duke University, the project features a unique innovation cluster that includes Biolabs NC, a biotech coworking facility. The lab is equipped with top-of-the-line research equipment, attracting ambitious startup companies. Headquartered in Baltimore, Wexford partners exclusively with universities and medical research centers and other major research institutions to create these collaborative mixed-use communities.



## Centennial Campus / West Raleigh

North Carolina State University's Centennial Campus is a 5.1-msf research-driven park located in West Raleigh. Centennial Campus plays an important role in encouraging innovation and partnering with students, national and international partners and government entities. More than 170 start-up companies have been launched in Centennial Campus, and the park is home to more than 76 industry, government and nonprofit partners.

**Biomedical Partnership Center** offers 2,435 sf of lab and office space.

**Keystone Science Center** provides more than 78,000 sf of office and lab space and is a major hub for research and development.

**The Center for Technology and Innovation** has more than 110,000 sf of office, R&D lab and industrial space and is LEED certified.

Recent

# Corporate Announcements

## Gilead Sciences

California-based Gilead Sciences will open a business service operation in Wake County, investing up to \$5 million and adding 275 jobs with an average wage of more than \$142,000. The pharmaceutical company chose the Triangle over Atlanta. Incentives are estimated to be valued at more than \$13 million and will include job training grants.

## Adverum

Adverum Biotechnologies is investing \$80 million to construct a new 100,000-150,000-sf facility that will be home to 200 new jobs. Adverum picked Durham over competing sites in California and Massachusetts and will offer employees average salaries in excess of \$90,000.

## KBI Biopharma

Durham-based KBI Biopharma will build a new \$150 million facility in Research Triangle Park. The site will be home to 200 employees and is expected to open in early 2022.

## Taysha Gene Therapies

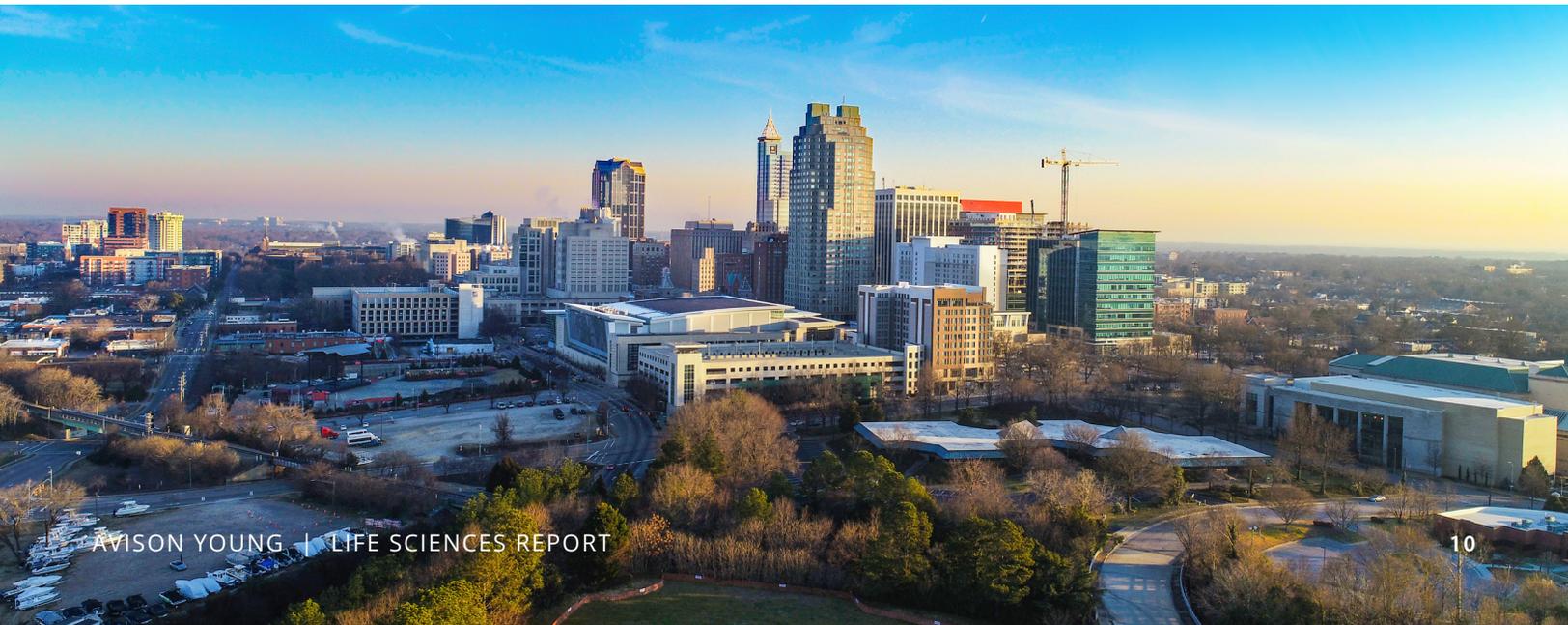
Texas-based Taysha Gene Therapies chose Durham over Dallas for a \$75 million manufacturing operation. The move will create 201 high-paying new jobs with an average wage of \$120,000. Taysha was founded in partnership with the University of Texas Southwestern Medical Group.

## BioAgilytix

Durham-based BioAgilytix chose Durham over Massachusetts for a \$61.5 million expansion that will add 878 new jobs. The company is eligible for up to \$18.8 million in incentives. The average minimum wage will be \$96,500.

## Nuvotronics

Durham-based Nuvotronics chose Durham over Huntsville, Alabama for a 150-job, \$50 million expansion of its high-tech manufacturing operations. Incentives are valued at \$5 million.



# Office to Lab Conversion

## Durham.ID

The former WeWork space at 300 Morris Street in Downtown Durham is in the process of being converted to 100,000 sf of state-of-the-art lab space. The coworking giant vacated its space amid the COVID-19 pandemic in 2020. The labs will range in size from 8,000-10,000 sf and larger and will address needs within the urban Durham market for high-quality lab space.



## INQ

Originally built in 2009 as a Sam's Club totaling 140,302 square feet, INQ@1101 will offer state-of-the-art new lab and creative office space. Mainstreet Capital Partners and a fund managed by DRA Advisors formed a joint venture to acquire and redevelop the property. INQ was recently rezoned for lab/life science and GMP facilities.

## Perimeter's Edge

Longfellow Real Estate Partners will convert this existing office and flex portfolio into lab and life science space. A \$53-million loan secured in 3Q20 will finance the conversion. Longfellow paid \$65 million for the five-building portfolio, which totals 399,072 sf of office and flex space. Future upgrades will include state-of-the-art lab space and façade enhancements.



Occupier Solutions

# Meet our team

Avison Young creates economic, social and environmental value as a global real estate advisor, powered by people. At Avison Young, we believe in creating positive impact wherever we go.

There is a vital role for commercial real estate to create healthy, productive workplaces for employees, cities that are centres of prosperity for its citizens, and built spaces and places that create a net benefit to the economy, the environment and the community.

Our nimble, agile team has global insight, local market expertise and access to some of the smartest technology in the commercial real estate industry. As a private company, you will collaborate with an empowered partner who is invested in your success as much as you are.

Our Occupier Solutions team has more than 225 members who are located in geographies around the globe. These professionals are solely focused on sourcing best-in-class research, services, expertise, vendors and resources—across our broad platform and through our vast networks—and then integrating them, seamlessly, to deliver the optimal solutions for our clients.



## North Carolina Team

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