

HOUSTON

A LIFE SCIENCES HUB



A Life Sciences Hub

Leveraging our legacy as the home of the world's largest medical complex — the Texas Medical Center — Houston is an emerging life sciences destination. From curing cancer to developing life-saving therapies, Houston's world-class health care institutions, research labs, and innovative companies are taking on the greatest medical challenges of our generation.

Houston's life sciences ecosystem is growing in areas like cell and gene therapy R&D and manufacturing, cancer-focused molecular diagnostics within R&D and production, and biologics drug development and manufacturing.

As a leader in diverse industries and with a collaborative spirit, Houston is at the forefront of innovation between industries, breaking down traditional barriers to bring together the greatest minds from aerospace, energy, health care, life sciences, manufacturing, petrochemical, and other industries.





Houston is one of the youngest, fastest growing, and most diverse regions.

4th

Largest U.S. city

7.3M

Residents

1 in 4

Houstonians is foreign born

3.3M

Jobs

Houston is unabashedly pro-growth and opportunity-rich.

24

Fortune 500 HQs, 3rd highest concentration in the U.S.

#3

U.S. metro for business expansion and relocation (Site Selection, '21/'22)

Top 25

Global Cities of the Future (fDI Intelligence, Financial Times, '21/'22)

Houston is a great global city.

90+

Foreign consulates, 3rd highest concentration in the U.S.

#1

Metro exporter in the U.S.

2

International airports with 180+ non-stop destinations

A Growing Ecosystem



Houston's high concentrations of life sciences employment, healthy funding landscape, and commitment to translational research is making it one of the country's fastest growing life sciences ecosystems.

#2

Top Emerging Life Sciences Cluster
(CBRE, '21)

#10

in Top 20 US Metros for Life Sciences Companies
(Commercial Café, '22)

\$961M

NIH Medical Research Grants
('22)

4,900+

Active clinical trials
(over 20% of all trials in the U.S.)

#13

in Top 25 Life Sciences Research Talent Clusters
(CBRE, '22)

15,400+

Life sciences and biotech researchers



Industry Presence



**Houston is home to over 700
life sciences companies.**

Select Companies

[Alaunos Therapeutics](#)

[Castle Biosciences](#)

[Cellipont Bioservices](#)

[Immatic](#)

[InGeneron](#)

[KBI Biopharma](#)

[Kiromic](#)

[Lexicon Pharmaceuticals](#)

[Lonza](#)

[Marker Therapeutics](#)

[Mercury Data Science](#)

[Moleculin](#)

[Nurix Therapeutics](#)

[Precision Medicine Group](#)

[Saliarius Pharmaceuticals](#)

[Tvardi Therapeutics](#)

[US Oncology Research](#)

[VGXI](#)

Houston is home to a strong university system and a large supply of young talent. Its robust higher education pipeline offers a range of life sciences education options, including tech certificates, 2-4 year degrees, Master's, and PhDs.

26,000+ Employees comprise the core life sciences industry

394,000+ Young professionals with a bachelor's degree or higher

5 Nationally ranked universities and graduate schools



Strong Talent Pipeline

Education and Research Ecosystem



Houston has a strong life sciences education and research ecosystem.

Texas A&M Innovation Plaza

Is a \$550 million, 5-acre mixed-use complex that houses the Texas A&M School of Engineering Medicine (EnMed) program, in addition to student housing and commercial space for clinical, research, and office use.

Rice University

Offers numerous undergraduate and graduate life sciences degrees and is home to the Institute of Biosciences and Bioengineering. Researchers actively collaborate with TMC institutions and other industry partners to accelerate interdisciplinary research and create translational research partnerships.

University of Houston

Is dedicated to educating students in health and life sciences through the Department of Biology and Biochemistry, the Department of Biomedical Science which is home to the Tilman J. Fertitta Family College of Medicine, the Cullen College of Engineering, and the Department of Physics-Biological and Medical Physics.

The University of Texas Medical Branch

At Galveston addresses the full spectrum of basic, translational, computational, and clinical research through its Graduate School of Biomedical Sciences.

San Jacinto College

Is partnering with NIBRT and McCord Development for the creation of the San Jacinto College Biotechnology Center in Generation Park which will offer certificate coursework in bioprocessing to students as well as special curriculum focusing on cell and gene therapy and other developing industry sectors.



Rendering of Levit Green





Life Sciences Developments

8800 TECHNOLOGY FOREST PLACE

Is a 12-acre life sciences campus designed to ignite innovation and promote collaboration. It is home to 325,000 square feet of purpose-built Class A space - including flexible laboratory, office, and biomanufacturing spaces.

GENERATION PARK

Is a 4,200-acre master-planned development that creates a thriving ecosystem for companies to grow. Already home to two college campuses - San Jacinto College and Lone Star College - Generation Park is integrating education and industry with its development of a biomanufacturing workforce institute that features advanced industrial bioprocessing equipment, including a bioprocessing pilot plant.

LEVIT GREEN

Is a new 53-acre master-planned district built next to TMC that is designed to offer a curated mix of uses, including research facilities; office, residential, shopping, and dining spaces; outdoor amenities and green space.

TMC HELIX PARK

Is the stimulative core of TMC that will be comprised of 6M square feet of research labs, retail, hotel, and large scale commercialization space with 18.7 acres of public green space and a TMC³ collaborative research building with four founding institutions.

Research



Houston is one of the top destinations in the world for health, life sciences, and translational research. As America's most diverse city and the site of over 20% of all clinical trials in the U.S., Houston is uniquely positioned to attract diverse clinical trial participants with recent trends toward clinical trial decentralization, clinicians well-acquainted with complex trials, and new tools that enable robust research in community settings.

\$1.9B

In life sciences research annually

\$961M

NIH grants totaling 1,752 in '22

50+

Academic and industry R&D centers

4,900+

Active clinical trials (over 20% of all trials in the U.S.)

CPRIT is a \$6 billion, 20-year initiative — the largest state cancer research investment in the history of the United States and the second largest cancer research and prevention program in the world.

1,819

Awards in cancer research, product development, and prevention since 2010

\$3.17B

Total amount awarded (over \$150M to Greater Houston organizations in '22)

2023 Program Priorities

Prevention and Early Detection Initiatives

Early Translational Research

Enhance Texas' Research Capacity and Life Sciences Infrastructure



Innovation

Houston is home to numerous health, life sciences, and interdisciplinary innovation hubs.

Through **JLABS @ TMC**, Johnson & Johnson enables talented scientists in the region to take their innovations to the next level and advance science with the potential to become transformational solutions for patients.

Home to **40** companies and

60 alumni companies within its network

34,000 SF of common, wet lab and office space

Extensive core shared resources, BS1 and BSL2 facilities

TMC's Innovation Factory drives TMC's diverse alliance of early-stage innovators. The TMC Innovation Factory empowers entrepreneurs from across the world to push the limits of discovery and bring their solutions to life faster.

300+ Startups

Health Tech Accelerator and Cancer Therapeutic Accelerator

\$50M TMC Venture Fund

Biodesign program for entrepreneurs to create solutions for health care's greatest unmet needs

\$5.8B Raised to date

BioBridges provide customized support to innovative international life sciences startups seeking to grow in the U.S.

The Center for Device Innovation (CDI @ TMC) focuses on supporting early-stage medical device concepts with high technical risk, rapidly developing and testing new devices to prove feasibility with faster timelines and capital efficiency.

1,000 SF of full-scale prototyping space

Rapid fabrication and 3D printing capabilities

Electronics testing and assembly equipment



The Cell Therapy Manufacturing Center (CTMC) operates at the intersection of cutting edge biotech and world-class cancer innovation in a first-of-its-kind cell therapy engine that is advancing novel scientific breakthroughs to end cancer.

Joint venture between
National Resilience Inc.
and **MD Anderson Cancer
Center**

75

Industry veterans and
scientists specialized in
cell therapy

60,000

SF of purpose-built cell therapy development and
industrial-grade cGMP cleanroom space



CUBIO is a collaborative life science incubator located in Houston's Medical Center with a mission to give medtech and biotech startups the resources they need to thrive.

Support for early-to-mid-stage
life sciences startups

Wet-lab space and shared
equipment available

Funding platform and consulting resources



Texas Medical Center

The Texas Medical Center (TMC) in Houston — the largest medical center in the world — is on a mission to further accelerate the pace of healing by harnessing collective expertise in innovation, research, development, production, and patient care within a single, centralized medical ecosystem.

10M

Patient encounters per year

60+

Leading academic, research, and health system member institutions

50M

SF

of research labs, retail, hotel and large-scale commercialization spaces with more underway



Houston offers a low cost of living with the cultural and entertainment amenities of a global city.

#2 Lowest cost of living among the 20 most populous U.S. metros

Housing costs **34.1%** below the nation's 20 most populous metros, and **7.9%** below the nation's average

Houston is home to an acclaimed and extensive cultural scene.

Renowned museums and cultural centers

Highest theater seats second to NYC

Resident performing arts organizations

Major league sporting teams

Houston is one of the greenest cities in the U.S.

Nationally recognized green space renaissance

Walkable neighborhoods

345

Miles of interconnected bikeways

382

Developed city parks

Home to **two** of the nation's **10** largest urban public parks



For more information about Houston's life sciences ecosystem, please contact

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GREATER HOUSTON
PARTNERSHIP.