

LIFE SCIENCES

More than 1,000 firms employing some 26,000 people make up the life sciences industry in the Dallas-Fort Worth region. DFW's life sciences industry is dominated by pharmaceutical and medicine manufacturers, such as Alcon (Fort Worth) and Essilor of America (Dallas). Medical equipment and supplies, as well as scientific research and development innovation, are hallmarks of DFW's life sciences industry. UT Southwestern Medical Center in Dallas is among the nation's best in biology and biochemistry research, boasting countless clinical breakthroughs and innovations.

CORE STRENGTHS

BRAIN RESEARCH, NEUROLOGY, & NEUROSURGERY

- > 7 Institutes and Centers are focused on brain research in DFW.
- > UT Southwestern ranked 21st in neurology and neurosurgery, and Children's Medical Center and Cook Children's ranked 14th and 29th, respectively, in the pediatric specialty (2018 U.S. News & World Report).

CANCER RESEARCH

- > Cancer Prevention & Research Institute of Texas (CPRIT) has awarded nearly \$400M to DFW institutions since 2009 to spur cancer research innovation and commercialization and to increase access to prevention programs and services.
- > The Texas Center for Proton Therapy opened in Irving in 2016 joining only 30 existing or planned centers across the U.S.
- > Mary Crowley Cancer Research Center located at Medical City Dallas Hospital is one of the world's largest gene therapy investigative facilities.
- > UT Southwestern's Harold C. Simmons Cancer Center earned a National Cancer Institute (NCI) designation, bestowed upon top-tier cancer centers nationwide.
- > Baylor University Medical Center's T. Boone Pickens Cancer Hospital is the first dedicated cancer hospital in North Texas and the second in the state.

CHILDREN'S CARE

- > Texas Scottish Rite Hospital Spinal System manufactured and marketed by Medtronic is the most widely used implant system in the world for spinal deformity.
- > Children's Medical Center Dallas is one of only 14 national pediatric research centers sanctioned by the National Institutes of Health.
- > Children's Medical Center Dallas-Texas Scottish Rite Hospital ranked 3rd in the country for Pediatric Orthopedics, 6th for Gastroenterology & GI Surgery and 7th for Cardiology & Heart Surgery (2018 U.S. News and World Report).

DENTAL RESEARCH

- > Texas A&M's Baylor College of Dentistry (TAMBCD) is a nationally recognized center for oral health sciences education, research, specialized patient care, and continuing dental education.

WELLNESS

- > The Cooper Institute and Clinic Longitudinal Study is one of the most highly referenced databases on physical fitness and health in the world.

UT SOUTHWESTERN

- > UT Southwestern Medical Center ranks among the top academic medical centers in the world, training nearly 4,600 students, residents, and postdoctoral fellows each year.
- > UT Southwestern claims five Nobel Prize recipients; 20 members of the National Academy of Sciences; and has received over \$1 billion in National Institutes of Health (NIH) funding since 2007.

REGIONAL PARTNERSHIPS

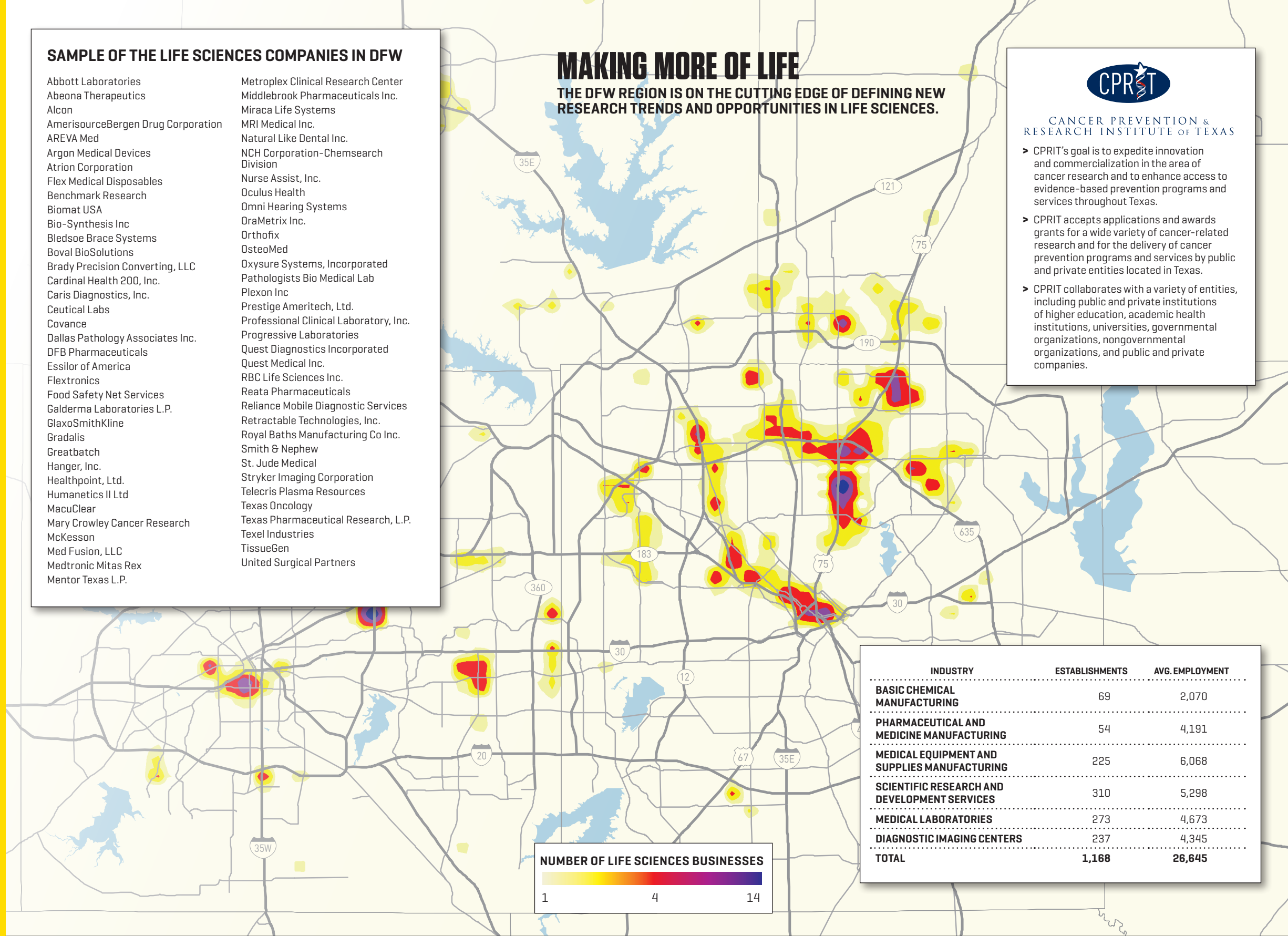
- > Major participants/competitors in the sector collaborate in many ways including the DFW Hospital Council, Health Industry Council, Dallas Medical Resources, and Teaching Hospital Forum.
- > The North Texas Accountable Healthcare Partnership (NTAHP), designated as the regional health information exchange (HIE) entity is located in Arlington.

SAMPLE OF THE LIFE SCIENCES COMPANIES IN DFW

Abbott Laboratories	Metroplex Clinical Research Center
Abeona Therapeutics	Middlebrook Pharmaceuticals Inc.
Alcon	Miraca Life Systems
AmerisourceBergen Drug Corporation	MRI Medical Inc.
AREVA Med	Natural Like Dental Inc.
Argon Medical Devices	NCH Corporation-Chemsearch Division
Atrion Corporation	Nurse Assist, Inc.
Flex Medical Disposables	Oculus Health
Benchmark Research	Omni Hearing Systems
Biomat USA	OraMetrix Inc.
Bio-Synthesis Inc	Orthofix
Bledsoe Brace Systems	OsteoMed
Boval BioSolutions	Oxysure Systems, Incorporated
Brady Precision Converting, LLC	Pathologists Bio Medical Lab
Cardinal Health 200, Inc.	Plexon Inc
Caris Diagnostics, Inc.	Prestige Ameritech, Ltd.
Ceutical Labs	Professional Clinical Laboratory, Inc.
Covance	Progressive Laboratories
Dallas Pathology Associates Inc.	Quest Diagnostics Incorporated
DFB Pharmaceuticals	Quest Medical Inc.
Essilor of America	RBC Life Sciences Inc.
Flextronics	Reata Pharmaceuticals
Food Safety Net Services	Reliance Mobile Diagnostic Services
Galderma Laboratories L.P.	Retractable Technologies, Inc.
GlaxoSmithKline	Royal Baths Manufacturing Co Inc.
Gradalis	Smith & Nephew
Greatbatch	St. Jude Medical
Hanger, Inc.	Stryker Imaging Corporation
Healthpoint, Ltd.	Telecris Plasma Resources
Humanetics II Ltd	Texas Oncology
MacuClear	Texas Pharmaceutical Research, L.P.
Mary Crowley Cancer Research	Texel Industries
McKesson	TissueGen
Med Fusion, LLC	United Surgical Partners
Medtronic Mitas Rex	
Mentor Texas L.P.	

MAKING MORE OF LIFE

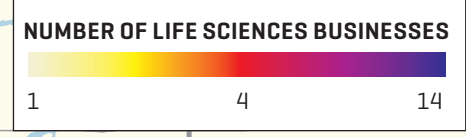
THE DFW REGION IS ON THE CUTTING EDGE OF DEFINING NEW RESEARCH TRENDS AND OPPORTUNITIES IN LIFE SCIENCES.



CANCER PREVENTION & RESEARCH INSTITUTE OF TEXAS

- > CPRIT's goal is to expedite innovation and commercialization in the area of cancer research and to enhance access to evidence-based prevention programs and services throughout Texas.
- > CPRIT accepts applications and awards grants for a wide variety of cancer-related research and for the delivery of cancer prevention programs and services by public and private entities located in Texas.
- > CPRIT collaborates with a variety of entities, including public and private institutions of higher education, academic health institutions, universities, governmental organizations, nongovernmental organizations, and public and private companies.

INDUSTRY	ESTABLISHMENTS	AVG. EMPLOYMENT
BASIC CHEMICAL MANUFACTURING	69	2,070
PHARMACEUTICAL AND MEDICINE MANUFACTURING	54	4,191
MEDICAL EQUIPMENT AND SUPPLIES MANUFACTURING	225	6,068
SCIENTIFIC RESEARCH AND DEVELOPMENT SERVICES	310	5,298
MEDICAL LABORATORIES	273	4,673
DIAGNOSTIC IMAGING CENTERS	237	4,345
TOTAL	1,168	26,645



 BIOMEDICAL ENGINEERS 289 \$51.63	 CHEMICAL ENGINEERS 965 \$65.26	 MEDICAL SCIENTISTS, EXCEPT EPIDEMIOLOGISTS 524 \$29.75	 CHEMISTS 1,008 \$33.63	 ENVIRONMENTAL SCIENTISTS AND SPECIALISTS, INCLUDING HEALTH 1,164 \$37.75	 PHARMACISTS 6,295 \$60.16	 DIAGNOSTIC MEDICAL SONOGRAPHERS 1,428 \$35.87	 PHARMACY TECHNICIANS 10,219 \$15.40	 OPHTHALMIC LABORATORY TECHNICIANS 1,372 \$14.97
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LEGEND:
OCCUPATION
JOBS | MEDIAN HOURLY EARNINGS

SOURCE: EMSI, 2018 Q4 - QCEW Employees, Non-QCEW Employees, and Self-Employed