

# LIFE SCIENCES

More than 1,000 firms employing more than 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 Inc. and Essilor of America Inc. Medical equipment and supplies, and 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.
- > Baylor Scott & White and UT Southwestern ranked 38th and 42nd, respectively, in neurology and neurosurgery (2016 U.S. News & World Report).

### CANCER RESEARCH

- > Cancer Prevention & Research Institute of Texas (CPRIT) has awarded \$352M to DFW institutions since 2009 to spur cancer research innovation and commercialization and to increase access to prevention programs and services.
- > UT Southwestern Medical Center is leading a Texas consortium of researchers to establish the country's first National Center for Heavy Ion Radiation Therapy by 2021 that could provide clinical care and research using heavy particles for innovative new cancer treatments.
- > The Texas Center for Proton Therapy opened in Irving in 2016 joining only 23 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 6th in the country for Pediatric Orthopedics and 7th for Gastroenterology & GI Surgery (2016 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.

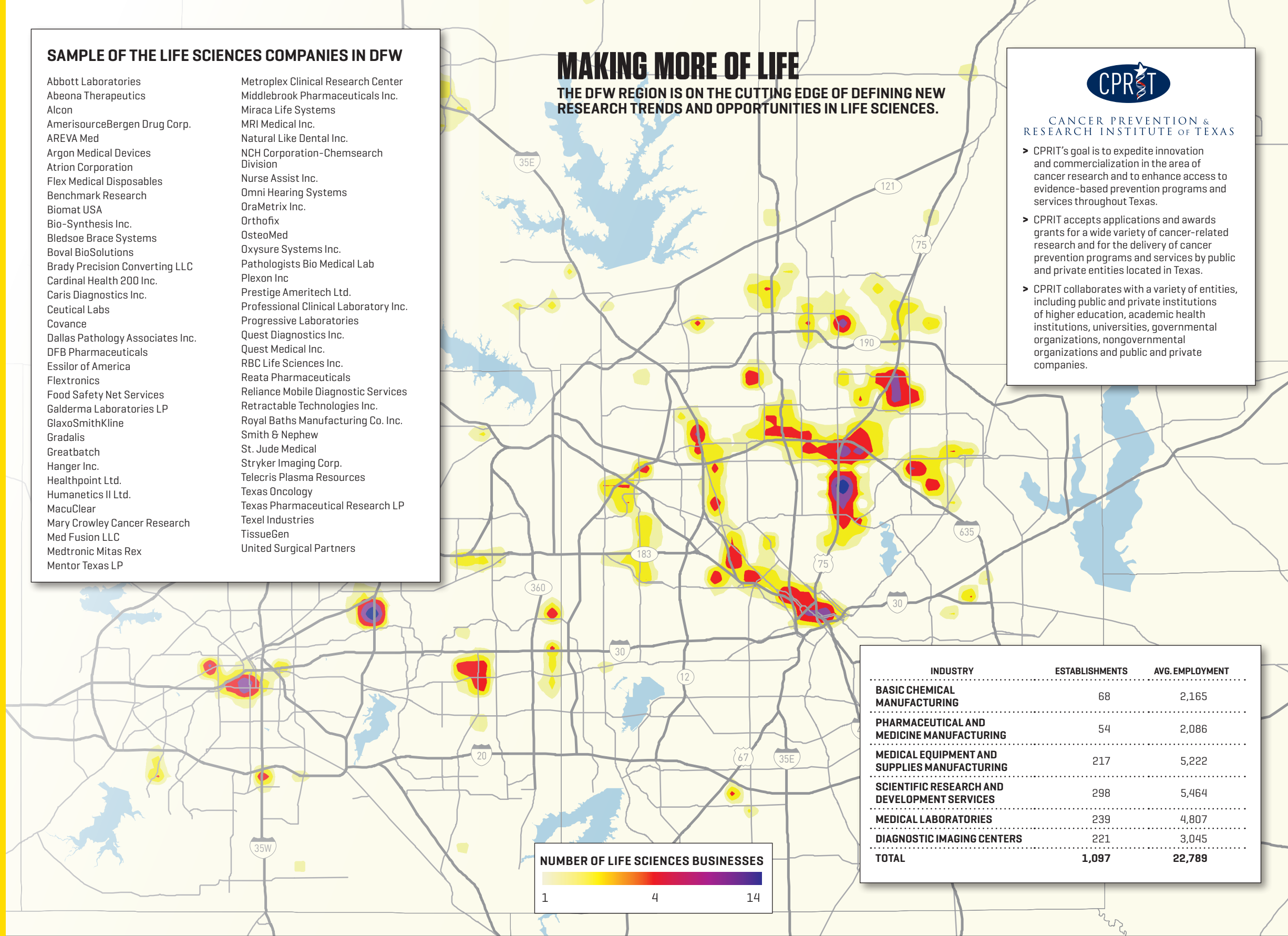
## SAMPLE OF THE LIFE SCIENCES COMPANIES IN DFW

Abbott Laboratories  
Abeona Therapeutics  
Alcon  
AmerisourceBergen Drug Corp.  
AREVA Med  
Argon Medical Devices  
Atrion Corporation  
Flex Medical Disposables  
Benchmark Research  
Biomat USA  
Bio-Synthesis Inc.  
Bledsoe Brace Systems  
Boval BioSolutions  
Brady Precision Converting LLC  
Cardinal Health 200 Inc.  
Caris Diagnostics Inc.  
Ceutical Labs  
Covance  
Dallas Pathology Associates Inc.  
DFB Pharmaceuticals  
Essilor of America  
Flextronics  
Food Safety Net Services  
Galderma Laboratories LP  
GlaxoSmithKline  
Gradalis  
Greatbatch  
Hanger Inc.  
Healthpoint Ltd.  
Humanetics II Ltd.  
MacuClear  
Mary Crowley Cancer Research  
Med Fusion LLC  
Medtronic Mitas Rex  
Mentor Texas LP

Metroplex Clinical Research Center  
Middlebrook Pharmaceuticals Inc.  
Miraca Life Systems  
MRI Medical Inc.  
Natural Like Dental Inc.  
NCH Corporation-Chemsearch Division  
Nurse Assist Inc.  
Omni Hearing Systems  
OraMetrix Inc.  
Orthofix  
OsteoMed  
Oxysure Systems Inc.  
Pathologists Bio Medical Lab  
Plexon Inc  
Prestige Ameritech Ltd.  
Professional Clinical Laboratory Inc.  
Progressive Laboratories  
Quest Diagnostics Inc.  
Quest Medical Inc.  
RBC Life Sciences Inc.  
Reata Pharmaceuticals  
Reliance Mobile Diagnostic Services  
Retractable Technologies Inc.  
Royal Baths Manufacturing Co. Inc.  
Smith & Nephew  
St. Jude Medical  
Stryker Imaging Corp.  
Telecris Plasma Resources  
Texas Oncology  
Texas Pharmaceutical Research LP  
Texel Industries  
TissueGen  
United Surgical Partners

# MAKING MORE OF LIFE

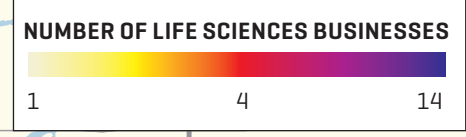
THE DFW REGION IS ON THE CUTTING EDGE OF DEFINING NEW RESEARCH TRENDS AND OPPORTUNITIES IN LIFE SCIENCES.



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	68	2,165
PHARMACEUTICAL AND MEDICINE MANUFACTURING	54	2,086
MEDICAL EQUIPMENT AND SUPPLIES MANUFACTURING	217	5,222
SCIENTIFIC RESEARCH AND DEVELOPMENT SERVICES	298	5,464
MEDICAL LABORATORIES	239	4,807
DIAGNOSTIC IMAGING CENTERS	221	3,045
<b>TOTAL</b>	<b>1,097</b>	<b>22,789</b>



OCCUPATION	JOBS	MEDIAN HOURLY EARNINGS
BIOMEDICAL ENGINEERS	335	\$42.12
CHEMICAL ENGINEERS	635	\$55.34
MEDICAL SCIENTISTS, EXCEPT EPIDEMIOLOGISTS	1,494	\$29.42
CHEMISTS	1,364	\$38.13
ENVIRONMENTAL SCIENTISTS AND SPECIALISTS, INCLUDING HEALTH	1,744	\$44.23
PHARMACISTS	5,881	\$57.64
DIAGNOSTIC MEDICAL SONOGRAPHERS	1,338	\$36.15
PHARMACY TECHNICIANS	7,509	\$15.87
OPHTHALMIC LABORATORY TECHNICIANS	689	\$15.10

**LEGEND:**  
OCCUPATION  
JOBS | MEDIAN HOURLY EARNINGS