

# SAN ANTONIO: CITY OF SCIENCE AND HEALTH

with a Collaborative Culture



## Introduction to the Healthcare and Bioscience Sector in San Antonio

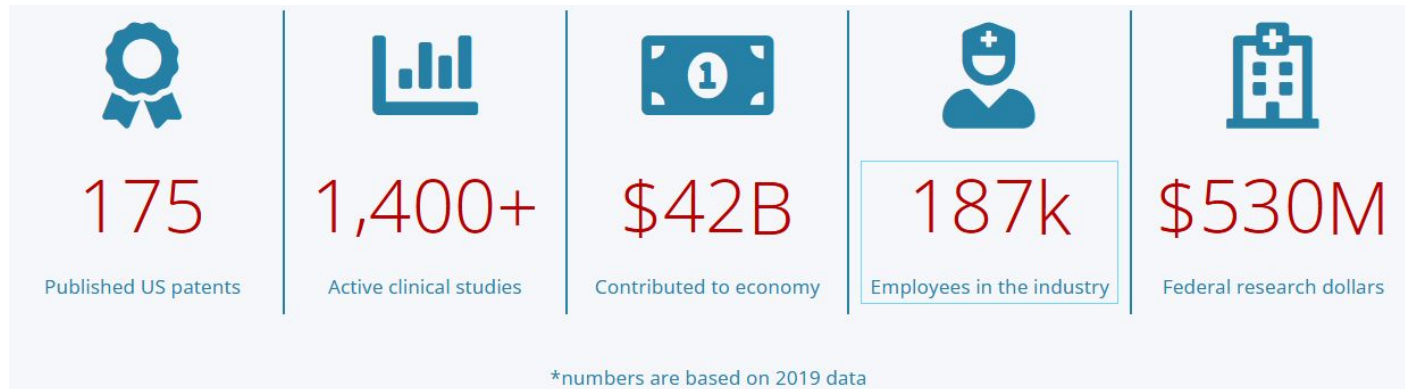


*To accelerate growth of the healthcare and bioscience sector, create regional economic benefit, and contribute to the health of San Antonio and beyond by establishing San Antonio as a leader in healthcare and bioscience.*



# HEALTHCARE AND BIOSCIENCE IN SAN ANTONIO

- 7th and 8th largest hospital systems in USA
- Largest military health complex in the USA
- 3 medical schools, 1 pharmacy school, 6 nursing programs, 2 dental schools
- 11 entrepreneurial support organizations
- Medical device, pharma, therapeutics, biologics, and tissue manufacturing



# UNIQUENESS OF SAN ANTONIO

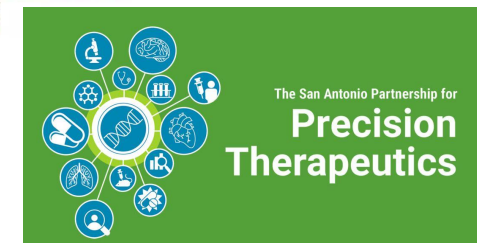
- 2 Level 1 Trauma Centers
- DoD's only Burn Associated-verified Burn Center
- Only NIH Primate Center with a BSL4 lab in the US
- NIA Alzheimer's Disease Research Center, NCI Cancer Center
- Pediatric-dedicated cancer research facility
- Medical Research Institutions: Independent (3), DoD (12), Academic (6)
- Cybersecurity workforce is the largest outside of Washington DC
- DOD 5G Testbed Site (JBASA) is only location testing 5G Core Security and 5G in Telemedicine & Medical Training



# BIOSCIENCE TARGETED DISEASE AREAS IN SAN ANTONIO

## PRIVATE AND PUBLIC FOCUS

- Trauma, wound care, regenerative medicine
  - Infectious diseases
  - Cancer
  - Neurological disorders
  - Diabetes
- 
- Collaboration results in stronger proposals and more successful outcomes



# TRAUMA/REGENERATIVE MEDICINE/WOUND CARE

- Military medicine research
  - Dedicated grant support for military collaboration
- Non-profit research
  - UT Health San Antonio, Southwest Research Institute, UTSA
- Medical device companies
  - 3M KCI, numerous small to mid-size
- Several tissue/biologic contract manufacturers
  - GenCure, Cellright Technologies, Scorpion Biological Services and others
- Collaboration: home to SURF conference (industry, academia, military)



★ SURF ★  
2020

# INFECTIOUS DISEASES

---

- Non-profit research
  - Texas Biomedical Research Institute; UT Health SA, South Texas Center for Emerging Infectious Diseases; US Military, Vaccine Development Center of SA
  - Texas Biomed is the only independent primate lab with a BSL4 lab in USA; developed the first animal models for COVID-19 testing
- Corporations (small-midsize)
- San Antonio Partnership for Precision Therapeutics – funds collaborative research through UTSA, UT Health SA, TX Biomed, SwRI

# CANCER

---

- Non-profit research
  - MD Anderson/Mays Cancer Center, Greehey Children's Cancer Research Institute
- Companies (small-midsize)
  - Many pharmaceutical companies
  - Diagnostic medical device companies
- Collaboration: home to largest breast cancer conference (SABCS)
- Dedicated state funding available: CPRIT

# NEUROLOGICAL DISORDERS

---

- Non-profit research
  - Barshop Institute for Longevity and Aging Studies, US Military, Brain Health Consortium, Center for Biomedical Neurosciences, Glen Biggs Institute for Alzheimer's & Neurodegenerative Diseases, Perry & Ruby Stevens Parkinson's Disease Center of Excellence
- Several small-midsize companies
- Dedicated funding
  - Brainstorm (Mind Science Foundation), military medicine (City)

# DIABETES

---

- Non-profit Research
  - Texas Diabetes Institute, Center for Community Based and Applied Health Research, Center for Renal Precision Medicine, Inst. for Health Promotion Research
- Numerous clinical trials due to prevalence in population in public and veterans

# ENVIRONMENT TO SUPPORT BIOSCIENCE COMPANIES

- Collaborative, friendly culture
- Available life science research partners
- Strong network/cybersecurity presence
- Low cost to do business
- Business friendly government
- Land available for build-to-suit
- Lab/office space available for lease
- Safe; low natural disaster risk
- High quality of life with outdoor activities year-round
- Reasonable traffic



# WORKFORCE DEVELOPMENT

---

- Community and government support for healthcare and bioscience workforce
- \$70M on-the-job subsidized training program in 2020-21
- \$154 million in sales tax revenue to train up to 40,000 workers, starting in Q3 2021



# CAPABILITIES TO SUPPORT BIOSCIENCE COMPANIES



- Over **\$530 million** of federal funds awarded for biomed research (2019)
- World renowned research organizations available to assist
  - Texas Biomedical Research Institute
  - Southwest National Primate Research Center
  - UT Health San Antonio
  - Southwest Research Institute
  - UTSA
  - US Military Medicine facilities



# CAPABILITIES TO SUPPORT BIOSCIENCE COMPANIES



- Innovators are here: **175** life science US patent applications published in 2019
- Innovation/accelerator support available through 11 organizations
- Funding available in the region (Austin, Houston, San Antonio) and nationally



VELOCITY TX



# CAPABILITIES TO SUPPORT BIOSCIENCE COMPANIES



- Drug discovery support (modeling, screening, small volume manufacturing)
- Supporting organizations for contracted research and customer discovery
- Companies and consultants available to support engineering, design, development, and regulatory



# CAPABILITIES TO SUPPORT BIOSCIENCE COMPANIES



- Custom and standard lab testing is available
- Multiple vivarium for pre-clinical testing, including the world's largest colony of baboons available for internal and contracted biomedical research
- Over 1400 active clinical trials in 2019
  - Diverse population of ethnicities and diseases (diabetes, fatty liver, obesity, heart disease)
  - Population supports participation in clinical trials
  - Local Contract Research Organizations (CROs)



# CAPABILITIES TO SUPPORT BIOSCIENCE COMPANIES



- Diverse manufacturing capabilities: small to high volumes
- Medical device components
- Medical devices, packaging, and accessories
- Biologics and tissue manufacturing
- Pharmaceutical manufacturing



# CAPABILITIES TO SUPPORT BIOSCIENCE COMPANIES



- Local access to military medicine insights
- Marketing and sales expertise available
- Export assistance
- Business incentives





# SUPPORT FROM BIOMEDSA: HUB OF THE LIFE SCIENCE INDUSTRY IN SAN ANTONIO

- Communicates funding opportunities, events, and news
- Facilitates collaborations and connections
- Advocates for life science sector
- Convenes targeted working groups
- Workforce development

# SAN ANTONIO: CITY OF SCIENCE AND HEALTH

with a Collaborative Culture



Contact BioMedSA for more information.

[www.biomedsa.org](http://www.biomedsa.org)

[hhanson@biomedsa.org](mailto:hhanson@biomedsa.org)

210-468-1829



*To accelerate growth of the healthcare and bioscience sector, create regional economic benefit, and contribute to the health of San Antonio and beyond by establishing San Antonio as a leader in healthcare and bioscience.*

