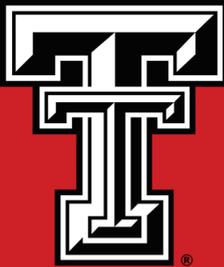


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2019



HOW A COMMUNITY FUELS RESEARCH INNOVATION & STARTUPS



 The Hub™	
BaoNano	NuPark
Flint Avenue Marketing	Reproductive Solutions
Gap Peptides	S&W Seed Co.
Grower Information Services Cooperative	South Plains Biotechnology
MicroZap	TTU Accelerator
NemaLife	TitleFlow

KIMBERLY GRAMM

banner year for emerging startup community

Texas Tech University is making strides in building our startup community in Lubbock, Texas. In the pages that follow, you will read about the development of an emerging community supporting the American Dream. This is achieved through hard work, perseverance (and sometimes failure) which when combined, result in progress and entrepreneurial success. Our year in review is about how the entrepreneurial spirit and culture continues to grow in West Texas.

My team and I are honored to have supportive Texas Tech leadership, inspiring creative students, patient brilliant faculty, and a generous community encouraging the Innovation Hub team. We provide our entrepreneurs with resources and a safe learning environment. This year a record 21 companies call the Hub their home. Over 16,000+ people came in the doors looking for help with innovation and entrepreneurship. We hosted 307 events ranging from board meetings, mentor meetings, research cross-collaboration meetings, competitions, poster showcases and so much more. A total of more than \$1.1M was invested to help entrepreneurs start their businesses.

We were thrilled to have our first Hub tenant exit; NuPark sold to Passport for \$20M+. Chromatin was sold to S&W Seed company for an undisclosed amount. Our 43 mentors worked tirelessly to advise and provide guidance to all our founders by donating 8,226 hours in 2019, a gift that differentiates Texas Tech from most universities in the United States. Finally, we were awarded a \$650,000 Department of Commerce grant to establish the first venture fund, the \$10M Hub Fuel Fund, to fund agriculture technology innovators and entrepreneurs in West Texas.

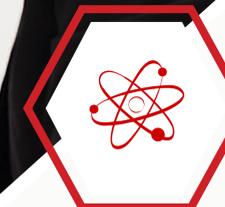
Our partners and the community play such an important role in helping this great institution to serve our citizens. Through these efforts we encourage all West Texans to not only believe in the American Dream, but to pursue it relentlessly! We are developing a first-rate entrepreneurial culture. Thank you to all of our partners, our community, and the leadership at Texas Tech for making it possible.

Kimberly Gramm, MBA
Senior Managing Director, Innovation Hub
Texas Tech University

KIMBERLY GRAMM,
SENIOR MANAGING DIRECTOR



ACCELERATION



COMMERCIALIZATION



IDEATION

2018-2019 year in review



18 OCTOBER

Red Raider Startup
156 attendees

GCEC Conference
Hub & TTU faculty/staff presented at conference in Chicago

NuPark Exit
Passport acquires NuPark SaaS parking technology platform

19 JANUARY

1st Performance Innovation Speaker Series
256 attendees
Brian Harris, MedRhythms

Regional Innovation Strategy
1st West Texas Venture Fund

Regional Innovation Strategy Grant Awarded
\$650,000 (3 year)

LEDA Grant Awarded
\$1,186,000 (3 year)

19 APRIL

Discoveries To Impact Conference
1st time to co-host with TrUE & CISER
1,006 attendees
\$15,000 awarded to startups

2nd Performance Innovation Speaker Series
152 attendees
Sherwin Greenblatt,
Former President, Bose Corporation
MIT VMS, Director

19 JUNE

TTU Accelerator
Graduation & ribbon cutting
154 attendees
5 companies
7 new startups

19 AUGUST

Faculty C-Startup
\$15K awards
Entrepreneurial
Curriculum
Development Grants
980 students impacted

18 NOVEMBER

Idea Competition
17,000 votes on ideas
\$3,500 awarded

19 FEBRUARY

NSF I-CORPS Site Launched
14 teams
6 National I-Corps teams
\$300,000 NSF funding awarded to teams

19 MAY

**Hannah Phillips,
Communication & Events
Specialist**
Joined Innovation Hub

19 JULY

**Courtney Fenwick,
Business Manager**
Joined Innovation Hub

THE HUB

collaborative space

44,135 sq.ft.
total Hub space

4,500 sq.ft.
of flex office space

1,610 sq.ft.
4 video-conferencing rooms

2,023 sq.ft.
of multipurpose room space with AV

7,435 sq.ft.
of wet lab space



INNOVATION HUB TEAM



DAVID DORSETT,
FACILITY DIRECTOR



COURTNEY FENWICK,
BUSINESS MANAGER

metrics



SOUTH PLAINS biotech



Ted Reid, Ph.D.
TTUHSC Professor of Ophthalmology,
Visual Science, and Immunology and
Molecular Microbiology

Phat Tran, Ph.D.
TTUHSC Research Instructor,
Ophthalmology and Visual Sciences

South Plains Biotechnology, Inc. is a company to support the ability of faculty at the Texas Tech University Health Sciences Center and Texas Tech University to accelerate their research ideas into commercial products. The genesis of the company began with three faculty members at TTUHSC (Vadivel Ganapathy, Ph.D.; Matthew B. Grisham, Ph.D.; and Ted Reid, Ph.D.) and venture capitalist Dr. Dilip Mehta to promote the commercialization of research ideas.

Recently, three National Institute of Health (NIH) grants were awarded to further innovation:

A U01 grant for \$1,600,000 on the testing of drugs for alcohol use disorder

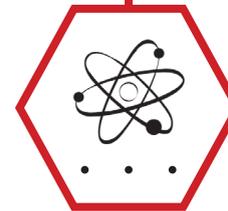
An R41 grant for \$160,000 on drugs for alcohol use disorder

An R41 grant for \$160,000 for studies on a new drug for gout

South Plains Biotechnology co-founder Dr. Ted Reid says, "Our company settled in the Innovation Hub because it is an ideal location for interaction with the medical school faculty and convenient for students." He adds, "The Hub itself has been extremely helpful."

More than 10 students are working on projects in the company's lab at the Innovation Hub.

Dr. Reid: "One of our students (John Reed) was guided to enter a competition (TrUE) and won first prize of \$1,000. He is now very committed to medical research."



COMMERCIALIZATION



2019 impact

21

companies

307

events
2017 cumulative: 992

12

programs

43

mentors

25

partnerships

5.9M

media hits

11 TTU ACCELERATOR STARTUPS SINCE 2017

34

TTU ACCELERATOR
EMPLOYEES

14

of IP

\$73K

AVERAGE ANNUAL
SALARY

7 NEW STARTUPS LAUNCHED
JUNE 2019

\$1.06M

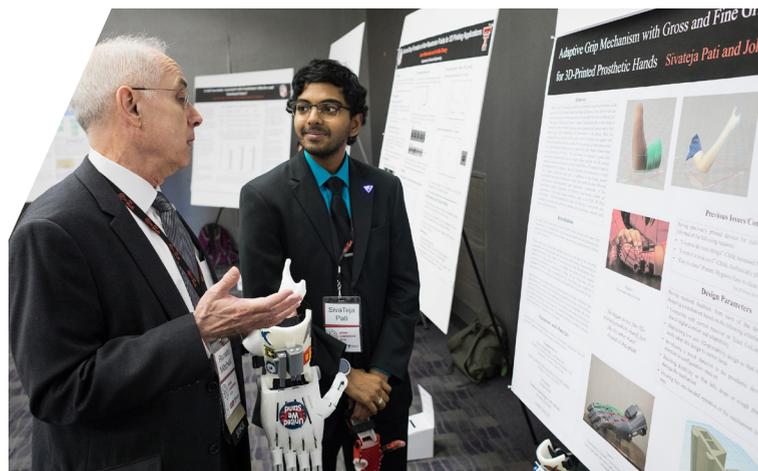
federal & internal
grants awarded to
startups

16,791

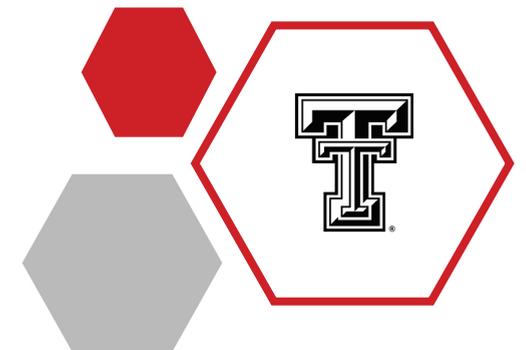
attendees
2017 cumulative: 40,221

\$814K

innovation hub grant \$
received



Dr. Ronald Mitchell & Sivateja Pati | Poster Showcase



NUPARK mobility industry



CEO, Kevin Uhlenhaker
Co-Founder

Ron Frick
Co-Founder, Senior Application Developer

CTO, Stephen Lambert
Co-Founder

Passport and NuPark share a common vision to transform how cities, universities, airports, and businesses manage their operations with a comprehensive mobility platform. The combined platform of solutions includes mobile payments for parking, cloud-based parking enforcement, license plate recognition (LPR) technology, digital permitting, micro-mobility management, and mobile payments for transit and tolling.

One of the first tenants at the Texas Tech Innovation Hub at Research Park was acquired by a leading mobility industry company, located in North Carolina. Parking management technology company NuPark was sold to Passport, Inc. in October 2018, just five years after commercialization and three years after moving into office space at the Innovation Hub. NuPark co-founder Ron Frick says the Hub has been much more than just the place of business for NuPark. "I think community is a key word when you talk about the Hub. You have a sense of community and that feeling like somebody is there if you need them. It definitely feels like home." The co-founders of NuPark, Ron Frick, Kevin Uhlenhaker, and Stephen Lambert, are a West Texas success, raising more than \$3M in funding for NuPark and acquired for \$20M+.

In the beginning, as Tech's student enrollment was steadily increasing, the parking services department was looking to be more efficient with the same number of staff. After an exhaustive search, a gap in technology was apparent. That's when Frick was hired by IT Manager, Stephen Lambert. The two started with ambitious plans to replace the current system and layer in new technology, with the hope of starting a company if the software proved successful. Their task was to build and implement a license plate recognition-based software platform that would meet the Tech community's specific needs. "We found out first-hand and fast what worked." The NuPark team continued to work in their Texas Tech jobs as the company sought out clients. Florida International University signed the first contract with NuPark. Baylor University soon followed. NuPark kept adding universities to its client list. "It was still a bit of a risk to finally say 'I think this thing is really going somewhere' and quit our other jobs," Frick says. "By 2015, it was time to take that risk."

Frick says Passport, Inc. provided the best possible scenario for NuPark's exit. He says at the time, Passport had about 160 employees and through the sale acquired all 40 of NuPark's employees- and they continue to grow. Passport estimates 1 in 3 vehicles in the U.S., or 80 million vehicles, pass through the combined system network.



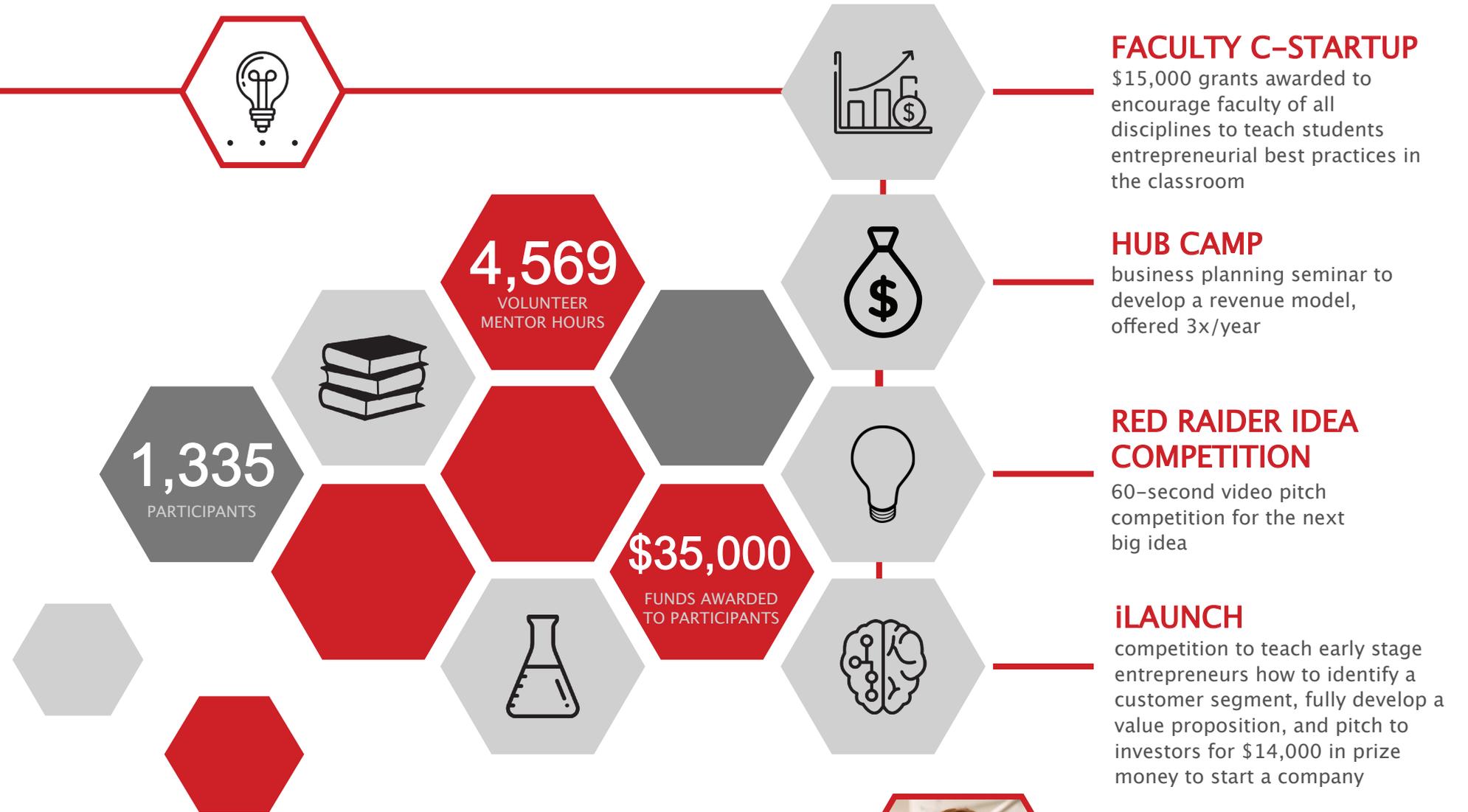
ACCELERATION

IDEATION



10-year-old Cooper Williams | CEO, Founder of FREEZ!

2019 IMPACT



FACULTY C-STARTUP

\$15,000 grants awarded to encourage faculty of all disciplines to teach students entrepreneurial best practices in the classroom

HUB CAMP

business planning seminar to develop a revenue model, offered 3x/year

RED RAIDER IDEA COMPETITION

60-second video pitch competition for the next big idea

iLAUNCH

competition to teach early stage entrepreneurs how to identify a customer segment, fully develop a value proposition, and pitch to investors for \$14,000 in prize money to start a company



TAYSHA WILLIAMS
IDEATION PROGRAM DIRECTOR

Ideation Programs provide “access” and support of early stage ideas and innovative research. The programs focus on “next steps” in the development of taking an idea and making a real product. Introduction to presenting an idea, team formation, customer discovery, and how to develop a value proposition are outcomes of the learning.



CEO, Anthony Betteridge
TTUHSC Medical Student

CMO, Nathan Lloyd
TTUHSC Medical Student

Nathan Lloyd and Anthony Betteridge are medical students at the TTU Health Sciences Center. Prior to coming to Tech, Lloyd worked as a middle school teacher in Utah and Betteridge was an Air Force pilot and instructor pilot. With VxMed, they're combining their experiences to apply simulated-reality to transform medical education.



Q What is VxMed and how does it work?



Anthony: VxMed is a simulated-reality training experience for medical students. In our program, they can see a simulation of a person in a realistic hospital environment, walk up to that patient, choose which labs to run, and create the order for medical procedures. All of this is presented similarly to medical textbooks and lectures except VxMed does this using a simulated-reality environment. We are confident that using this type of technology for learning will help students score better on their licensing exam and retain the medical knowledge longer, which will prepare them to perform well when they reach the clinical years in medical school.



Q What inspired you to create VxMed?



Nathan: Anthony and I were sitting in class listening to a lecture. The professor was spouting off disease after disease and going over the symptoms and how to diagnose it. It was frankly a bit overwhelming. We have both spent a lot of time seeing real patients and with those encounters, we realized that we remember things so much more clearly. So we decided to leverage technological advancements, including 3-D modeling, to recreate clinical hands-on experiences for medical students to use as they study.



Q How did VxMed become more than just an idea?



Anthony: After getting the idea for VxMed, we pitched it to a few students at the Texas Tech Health Sciences Center and they gave us the idea to go to the Innovation Hub. We were immediately blown away with the amount of support and resources that were available. That led us to enter the iLaunch Competition. Our pitch to business mentors and investors judging the competition won the first-place prize of \$10,000. We know this money will help us as we start building our product and our startup company here in Lubbock, Texas.



IDEATION

2019 discoveries to impact

“Discoveries to Impact” (DTI) is a week of fun to showcase research, innovation, and startups at Texas Tech University and in the West Texas community. “Discoveries to Impact” is a community partnership because Texas Tech is an “engaged” university making an impact on the West Texas region.

DTI was made possible through an exciting new partnership with the Center for Transformative Undergraduate Experiences (TrUE) and the Center for Integration of STEM Education Research (CISER) and our continuing partnership with the Lubbock Economic Development Alliance (LEDA), Rawls College of Business, and the J.T. & Margaret Talkington College of Visual & Performing Arts. The focus of our partnerships is to expose Texas Tech undergraduate students to the entrepreneur mind-set, connect innovators across all disciplines, and support the expansion of a knowledge-based economy based upon Texas Tech’s research capabilities.

The week showcased the best of the best at Texas Tech in research, innovation, and startups. The week began with 375 oral/poster presentations in the Undergraduate Research Conference (URC) from students who represented 12 institutions and 4 countries. Mid-week, conference attendees were invited to hear from two dynamic entrepreneur speakers including former President and Chief Engineer of Bose Corporation Sherwin Greenblatt and Chicago entrepreneur and investor Genevieve Thiers. Attendees also had the opportunity to hear from three thought-provoking panels and attend the Lightning Round Reception featuring the top 10 iLaunch finalists in the “Minute to Pitch It” event during the Spark Conference. The week concluded with the iLaunch Competition where \$14,000 in startup money was awarded and 112 artists and performers presented their work at the Visual and Performing Arts Exhibition at the First Friday Art Trail.

Thank You to the Discoveries to Impact Partners



TEXAS TECH UNIVERSITY
Center for Transformative Undergraduate Experiences



TEXAS TECH UNIVERSITY
Center for the Integration of STEM Education & Research

1,006

ATTENDEES

47%

STUDENTS ATTENDED

21%

FACULTY/STAFF ATTENDED

32%

COMMUNITY ATTENDED



2.6M

media hit views

3,357

volunteer hours



I thought this was a wonderful opportunity to share what the Hub does as part of Texas Tech and Lubbock Communities. It was very inspirational to hear and learn from presenters in other startups.

2019 DTI highlights



iLAUNCH COMPETITION VxMED – 1ST PLACE WINNER

10 startups competed for funding during the iLaunch Pitch Competition. A diverse investor panel from across the country including Silicon Valley selected VxMed, a virtual reality medical center, as the **\$10,000 first-place** winner. TTUHSC medical students Anthony Betteridge and Nathan Lloyd are continuing to develop their startup through the Innovation Hub programs and were recently accepted into the TTU Accelerator Program.



SHERWIN GREENBLATT FORMER PRESIDENT, BOSE CORPORATION

Sherwin Greenblatt, Former President and Chief Engineer of Bose Corporation, was the 2nd keynote of the 2019 Performance Innovation Speaker Series. He shared his inspirational story of how Dr. Amar Bose's love of classical music inspired him to create the first Bose speaker. **152 students, faculty, and community members attended the keynote luncheon.** The luncheon sold out in less than 48 hours. Due to demand, a 2nd showing was offered. He inspired faculty to commercialize while sharing the journey of Bose's rise to success.



COMMERCIALIZATION TRACK JOHN REED – 1ST PLACE WINNER

The Center for Transformative Undergraduate Experiences (TrUE) hosted the 11th Annual Undergraduate Research Conference. There were **375 research posters and 30 oral presentations from undergraduate students that represented 12 institutions and 4 countries.** 48 students shared how their research can solve global problems by participating in the commercialization track sponsored by LEDA. Texas Tech student, John Reed, was awarded the \$1,000 commercialization prize for his research poster titled **Organo-Selenium Coated Textile Inhibits Gram-Positive and Gram-Negative Bacterial Biofilm Formation.**

GENEVIEVE THIERS FOUNDER OF SITTERCITY.COM

Genevieve Thiers, Founder & CEO of Sittercity.com, shared how she is disrupting the tech industry as a woman entrepreneur and investor. **242 students, faculty, and community members** listened as she shared best practices for communities as they work to foster an entrepreneurial ecosystem. Following her keynote address, Genevieve participated in the **"It Takes a Community to Raise a Startup"** panel along with entrepreneurs and community leaders from Lubbock, Chicago, Silicon Valley, and Boston.

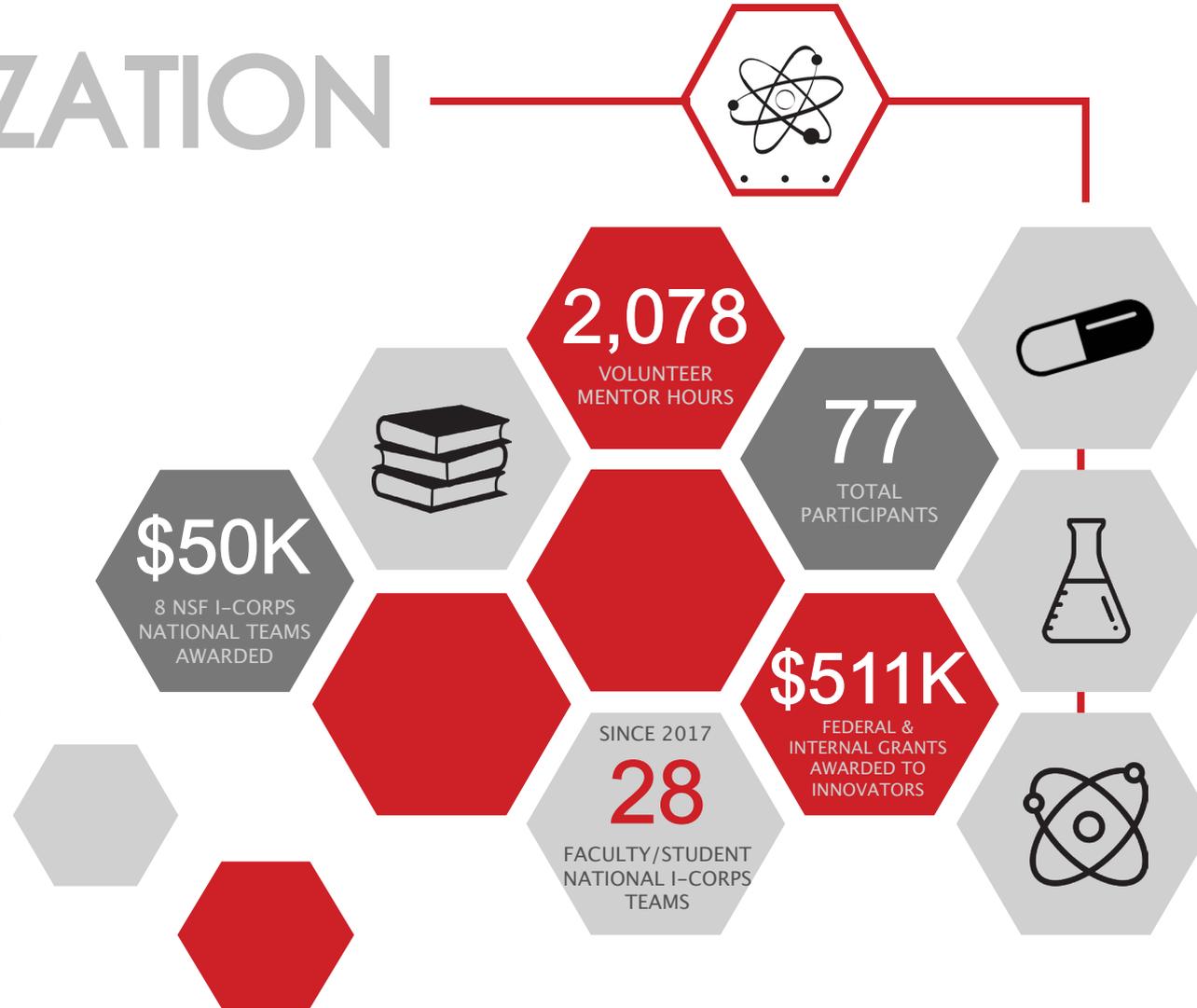


COMMERCIALIZATION



Anthony Betteridge, CEO | Nathan Lloyd, CMO | VxMed

2019 IMPACT



PROTOTYPE GRANT

is a newly developed program providing \$ to develop startup prototypes

NATIONAL SCIENCE FOUNDATION I-CORPS SITE & NODE

is an intensive program designed to enable scientists, engineers, and inventors to identify product market fit for inventions developed from research

GLEAMM SPARK FUND

is a \$1M proof of concept grant program designed to accelerate the commercialization of energy technologies through gap funding by launching startups based on GLEAMM-affiliated university intellectual property and attracting private sector sponsored research. Grant program ends December 2019



WESTON WALDO
COMMERCIALIZATION PROGRAM DIRECTOR

Commercialization is the process of introducing a new product or method and making it available to the market. The Commercialization Programs focus on nascent startups who have technologies and need to develop an alpha product with an intent for commercial use. Initial validation and assessment of product market fit are program learnings to prioritize the customer segment for market entry.

InOut biome



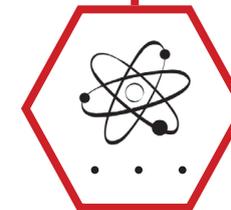
CEO, Melissa Sillivent
TTU Ph.D. Student

CTO, Phillip Jones
Inventor

InOut stands alone as a non-invasive ingestible capsule used to sample localized gastrointestinal microbiota and content for medical diagnostics, treatment, and research. The InOut Biome team completed the Regional I-Corps Program. They won the second place \$3,000 prize in the iLaunch Competition and a \$25,000 grant as a competitor in the 2019-2020 TTU Accelerator Program. Recently, the team also became an NSF National I-Corps team awarded \$50,000 to complete customer discovery.

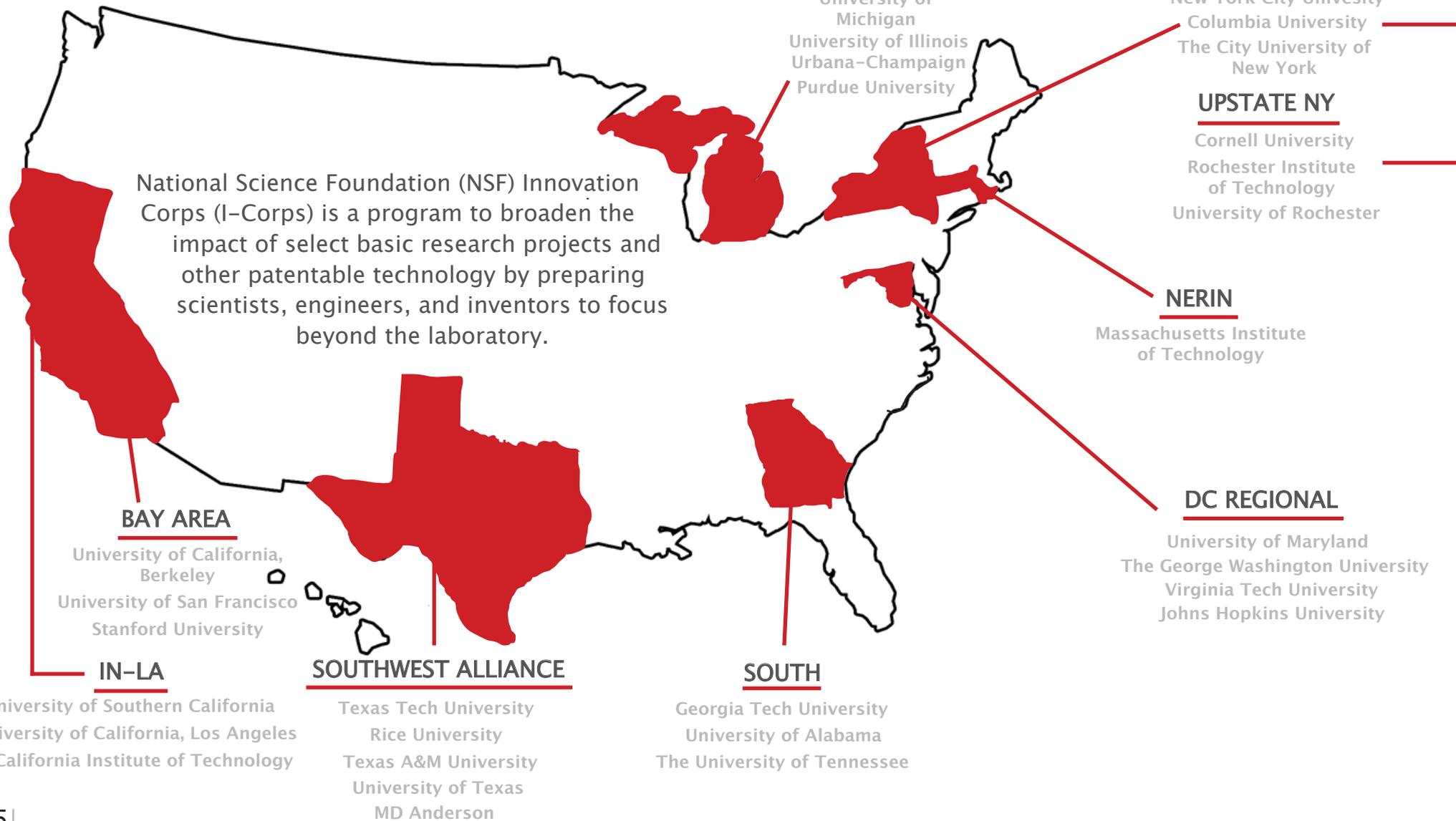
Independent inventor Phillip Jones spent years pursuing a solution for early detection of viral diseases. His quest centered on the microorganisms living in the small intestine, also called its microbiota. He developed the InOut Capsule, a non-invasive, non-digestible capsule that can directly sample the fluid in the digestive tract which will carry the microbiome. Although experienced with starting small businesses, Jones was looking for help to commercialize his invention and to research the market. Contacts within Texas Tech knew about his work, directed him to the Texas Tech Innovation Hub, and introduced him to Melissa Sillivent. Sillivent says, "The microbiome is one of the hottest topics in research right now and can detect early stages of cancer, diabetes, and HIV, along with many other diseases."

Sillivent says, "We began our Hub journey competing in iLaunch and won 2nd place. We then participated in the Regional I-Corps Program, which helped us to understand how we were going to market this disruptive technology. We needed to determine who is the customer and where we are going to go to identify them. We won a grant to do an extensive market research study. From there, we went to the National I-Corps Program and became participants in the TTU Accelerator Program. Through I-Corps, we've done more than 110 customer discovery interviews. We've made pivots and iterations all through the process. The I-Corps program has opened a lot of doors for us and definitely has taught us the steps to get from research to commercialization." Jones adds, "I-Corps has helped build critical mass of the concept and moved up our timeline for commercialization. It's not only provided us a pathway to study the market; it's exposed us to a good set of tools to use to survive the marketplace as a biotech startup." The company is now operationalizing their business in the TTU Accelerator Program, graduating in late spring 2020.



COMMERCIALIZATION

NSF I-CORPS commercialization



TEXAS TECH UNIVERSITY MEMBER OF THE SOUTHWEST ALLIANCE NSF I-CORPS NODE

2017
TO DATE
78

Texas Tech Regional
I-Corps Teams

28

National I-Corps teams
received a total of
\$1.4M in NSF funding to date



OUR PARTNERS



ACCELERATION



Dr. Joseph Heppert, Vice President for Research, Tim Collins, past Chair LEDA Board, and the Lubbock community launching new startups at the Lubbock Chamber of Commerce ribbon cutting.

2019 IMPACT



TTU ACCELERATOR

is a one-year program designed to assist faculty, students, and entrepreneurs to launch startup companies or discover licensing opportunities based on university research and/or patented technology. Accelerator companies are awarded a \$25,000 grant and have access to Hub co-working space and mentors

PRESIDENTS' INNOVATION AWARD

is awarded by the Office of the President of Texas Tech University and Texas Tech University Health Sciences Center to recognize select startups that exemplify innovation and commercialization. In 2018, \$100,000 was awarded to assist startups with equipment and rental space at the Innovation Hub

iTTU MENTOR PROGRAM

mentors are chosen for their expertise, investment and technical know-how, and network to aid in the launch of new enterprises

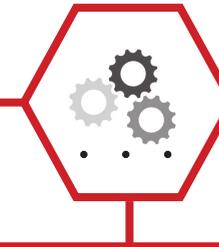


KIMBERLY GRAMM
SENIOR MANAGING DIRECTOR
DIRECTOR TTU ACCELERATOR

Developed to support entrepreneurs in furthering commercialization efforts with a focus on company formation. Acceleration Programs provide seed investment, office space, subject matter expertise and mentorship.

2019

TTU accelerator cohort 2



Offers wardrobe solutions to optimize the everyday closet experience through cool, flexible, all-in-one hangers that revolutionize the way clothes are stored.

Ayodele Aigbe, CEO
Jonathan Menjivar-Lopez



A new software technology tool to create efficiencies in importing product data & inventory.

Nat Joyner, CEO, CFO, CTO
Riley Barrett, CMO, COO



A novel diagnostics method of detecting eye diseases using a smartphone.

JoWoon Chong, CTO
Seungman Kim, CEO



Super capacitor technology that will significantly downscale the power circuit profile and enhance the lifetime and functionality of electronic devices.

Zhaoyang Fan, CEO
Nazifah Islam
Wenyue Li



A platform technology for high throughput drug discovery and toxicology in small animals.

Siva A. Vanapalli, Ph.D. President & CEO
Nicki Vanapalli, CFO
Mizanur Rahman, Ph.D. CTO

PRIYA GILL

mentor of the year



Priya Gill, a chemical engineering faculty member, is recognized for her hundreds of volunteer service hours, extraordinary contributions, and exemplary dedication to Texas Tech startups. Gill was awarded **2019 Mentor of the Year for the iTTU Mentor Program**. The iTTU Mentor Program is based on the guiding principles and practices of the MIT Venture Mentor System. Each of our 43 trained mentors is selected based on expertise and works one-on-one and in a team setting to assist with developing entrepreneurs and creating successful startups at Texas Tech.

In the last year, Gill contributed **271 volunteer mentor hours** including mentoring two of the 2018–2019 TTU Accelerator Program startups, Hangio and NemaLife. She says, “When I watch these teams soaking in the advice to start a company, I am inspired by their hustle. The joy that I get out of it, you know! When I think, ‘I spent all these hours’, it doesn’t even feel like it because I also see what they get out of it.”

Gill was also awarded a **\$2,500 Faculty C-Startup grant** to support the Hub and to inspire and create an innovation and entrepreneur culture at Texas Tech. She utilized this grant to incorporate the LEAN Launch Startup Method into her curriculum. Gill says, “The department I teach in, Chemical Engineering, has a very good record of students getting a job in industry. Many of my students said they will use the methods they have learned in their jobs, even though they are not starting out as an entrepreneur. To me, this is such a great launchpad for these young students to learn entrepreneurial methods. When infusing engineering applications and entrepreneurship, it makes them competitive and more successful in their work and their life.”



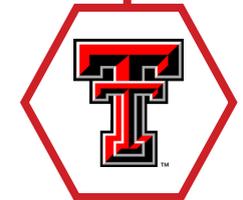
“When I watch these teams soaking in the advice to start a company, I am inspired by their hustle.”

2019

iTTU mentors

Lance Anderson
Randy Anderson
Nicholas Bergfeld
Jack Bohannon
Chris Burchett
Lloyd Caballero
Rex Castle
Ron Cocquyt
Tim Dallas
John Duffy
Jean Evans
Kelli Frias
Ron Frick
Jim Gilbreath
Priya Gill
Kimberly Gramm
Darrell Guthrie
Steve High
Todd Knowlton
Shara Konechney
Joe Lopez
Tim Mack

Alejandra Marin
Mike McDougal
David Miller
Jordy Moorman
Mark Murdock
Jeff Mustin
Mark Nair
Anthony Presley
Samuel Prien
Ryan Reber
Robert Robinson
Mike Ryan
Sandra Ryan
David Sharbutt
Tracy Shea
John Smothers
Kevin Soules
Tanner Thetford
Russell Thomasson
Amy Wood
Lena Zappia



NEMALIFE

drug trial tech

CEO, Siva Vanapalli, Ph.D.
TTU Professor in Chemical Engineering

CTO, Mizanur Rahman, Ph.D.
Co-Founder

CFO, Nicki Vanapalli
Co-Founder



NemaLife has developed a large-scale technology for whole-life studies in the worm *C. elegans* creating a new paradigm in high throughput screening. NemaLife's approach involves tracking the response of animals to thousands of interventions across life, providing critical information on healthspan and overall survival. This discovery technology is expected to unleash new genetic targets and drugs for improving quality of life.

NemaLife is proof that the Innovation Hub is true to its motto, "We launch West Texas startups." Technology that NemaLife licensed from Texas Tech University is currently scheduled to launch on a NASA-funded space mission in October 2019. NemaLife's CEO Siva Vanapalli says just over a year ago he and his team were only starting to think about forming the faculty-student startup. Weeks after graduating from the Texas Tech Accelerator Program, he says NemaLife "is fully open for business."

Dr. Vanapalli is a professor in the Department of Chemical Engineering at Texas Tech. He and his research team at Texas Tech developed a transparent microfluidic chamber that allows scientists to better study millimeter-long roundworms called *C. elegans*. The worms are often used in drug screening and other biological research experiments, like the one on muscle strength researchers will use during the planned October space mission.

NemaLife's mission is to develop technologies that can accelerate the pace of discovery of molecules that improve human health. Vanapalli explains, "Age is a huge risk factor for diseases. Worms are low-cost animal models to study aging and age-related diseases. However, existing approaches for life-long studies in worms are quite laborious. NemaLife has brought to market a technology that can accelerate the whole pace of drug discovery in this field." The disruptive technology developed by the team could revolutionize the way drugs are tested.



ACCELERATION

COMMUNITY IMPACT programs

Young Entrepreneur Academy (YEA!)

The Young Entrepreneur Academy provided by the Lubbock Chamber of Commerce transforms middle and high school students into business owners. Students are taught how to form businesses from their ideas and pitch to investors. The Innovation Hub is a key community partner with the Chamber and provides meeting space, access to mentors, and curriculum for the program. Fifteen companies were formed during the 2018–2019 YEA! graduating class.

Red Raider Startup High School Program

Thirty-three students from 6 different area high schools participated in the Red Raider Startup High School Program on May 3–5, 2019. All Lubbock school districts were represented as well as All Saints Episcopal School. Students progressed through a set of hands-on learning sessions that focused on ideation, team formation, customer discovery, and pitch workshops. The teams presented in front of an investor panel at the end of the 3-day event.

Entrepreneur Socials

Every other month, the Hub hosts networking socials at fun and unique places in the community. Connections are made with students, mentors, and industry leaders to create a culture of innovation and entrepreneurship in West Texas. Over 100 people attend each social.

Lubbock Angel Network (LAN)

The Lubbock Angel Network provides angel funding and support capital for innovative startups in West Texas and beyond. LAN is the only form of privately organized capital for venture investing in Lubbock. Partners work closely with the Innovation Hub for access to deal flow. The Innovation Hub is a key community partner for LAN, provides meeting space, and supports LAN's fundraising efforts. To date, LAN has invested in 25 companies and has three exits.

Tech Hub Entrepreneur Alumni Chapter

The Tech Hub Chapter was launched in 2017 in partnership with the Texas Tech Alumni Association to recognize Texas Tech alumni and connect them with the university in a meaningful way to entrepreneurship and innovation initiatives. The Hub Chapter provides opportunities to recognize alumni contributions to the entrepreneurial ecosystem and assist entrepreneurs through scholarships from classroom to the market place through networking, mentoring, and activities supporting Red Raider entrepreneurs.

1 Million Cups

Once a month, 1 Million Cups is hosted at the Hub to educate, engage, and inspire entrepreneurs. Two startup companies are invited to present each month to gain insight and resources from others in the entrepreneurial community.



Brian Harris, MedRhythms | Performance Innovation Speaker Series supported by The CH Foundation

59

Community Impact Events

373

Volunteer Hours

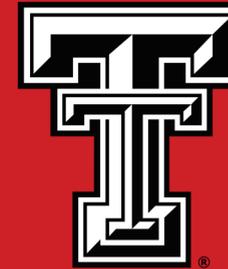
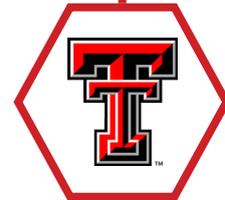
2,996

Community Impact Attendees



2019 partners

Accelerator H20
Association of Public & Land-Grant Universities
Association of University Research Parks
Center for Transformative Undergraduate Experiences
Center for Integration of Stem Education and Research
Global Consortium of Entrepreneurship Centers
Global Laboratory for Energy Asset Management and Manufacturing
Lubbock Angel Network
Lubbock Chamber of Commerce
Lubbock Economic Development Alliance
MIT Venture Mentor Program
National Science Foundation Southwest I-Corps Alliance
Office of Outreach & Engagement
Office of Research and Innovation
Office of Research Commercialization
Small Business Development Center
Texas Tech Alumni Association
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Texas Tech University Health Sciences Center
Texas Tech University System
Texas Tech University
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Venture Well
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