



TEXAS TECH UNIVERSITY SYSTEM™

TTUS Biannual Status Report University Research Collaborations

2/29/2024

TEXAS TECH
UNIVERSITY SYSTEM



Key Collaboration Initiatives

- ASU-MSU-TTU Faculty: Curriculum and Research
- TTU-TTUHSC-TTUHSC EP: Health Sciences
- TTU-TTUHSC-TTUHSC EP: One Health Initiative



BUILDING RESEARCH TEAMS

- Create a community of researchers
- Foster innovative collaboration
- Encourage external proposal submission

Update on previous meetings:

- September 2023 – ASU Engineering faculty traveled to Wichita Falls, met Engineering faculty at MSU and toured facilities. NSF-CMMI program director, Lucy Zhang, presented about NSF funding opportunities and proposal writing.
- November 2023 – Faculty from ASU and MSU took part in the webinar *Effective Partnerships and Collaborations* presented by Global Proposal Solutions and hosted by MSU.
- February 2024—Faculty from ASU and MSU took part in the webinar *Grant Writing by Deconstructing a Funded Proposal*, presented by Global Proposal Solutions and hosted by MSU.

GrantForward: Matchmaking for researchers:

Many of our research faculty have set up their profiles in GrantForward, the funding opportunity database to which both ASU and MSU have subscriptions. We are currently reviewing the profiles and plan to link up researchers with similar research interests.



Collaborative proposal: NSF GRANTED program

The proposed collaborative project aims to build and strengthen the research support and service enterprise at MSU Texas and ASU by creating and/or enhancing the services and infrastructure necessary for faculty and eligible staff to successfully manage research and education grants from NSF and other federal agencies.



- Revised concept outline submitted in November 2023, follow-up discussion with program officers in January 2024
- **Principal Investigators:**
 - Brittany Norman, Director of Sponsored Programs & Research, MSU Texas
 - Katie Plum, Director of Sponsored Projects, ASU
- **Proposed duration:** 3 years

Objectives:

1. Develop, implement, and evaluate a 'grow your own' approach to address post-award staffing challenges and build current and future capacity to support the research enterprise.
2. Enhance post-award practices and processes within the research enterprise by creating communities of practice within and between similar institutions.



TTUHSC IRB Assistance:

The MOU between ASU and TTUHSC establishing that IRB #2 from TTUHSC will review protocols submitted by ASU for research done with the Shannon Health System has been signed and set up effective January 1, 2024. The MOU will be reviewed after one year.

TTU Collaboration opportunities:

ASU:

- 1) In December 2023, a group of TTU team members interested in collaborative opportunities met with ASU faculty and staff and toured Engineering, Physics, and Computer Science facilities. Future collaborative opportunities were identified between TTU and ASU.
- 2) TTU invited ASU to partner on a Dept. of Defense cybersecurity workforce pilot project totaling \$275K for two years.

MSU:

- 1) In February 2024, a group of TTU team members visited MSU Texas and met with faculty from Engineering, Computer Science, Geosciences, Chemistry, and Agribusiness to discuss opportunities for collaboration.
- 2) TTU has a concept paper under review by the U.S. Agency for International Development – Active Communities, Effective States (ACES) program. An MSU faculty member, will participate as a sub-awardee if a full proposal is funded by USAID.
- 3) MSU has identified a faculty member to participate in the One-Health Institute research meetings.



Developing a Community of Practice between Institutions

Capitalizing on our strengths to help each other grow.

- Joint webinars on research and grant seeking
 - ASU and MSU each plan to host a webinar for faculty at both institutions on research/grants-related topics in Fall 2024.
 - Externally facilitated
 - Target specific areas (e.g. Health Science, Education, etc.)
- Writing groups/peer review groups between campuses



TEXAS TECH UNIVERSITY HEALTH SCIENCES CENTERS COLLABORATION UPDATE

Board of Regents Meeting

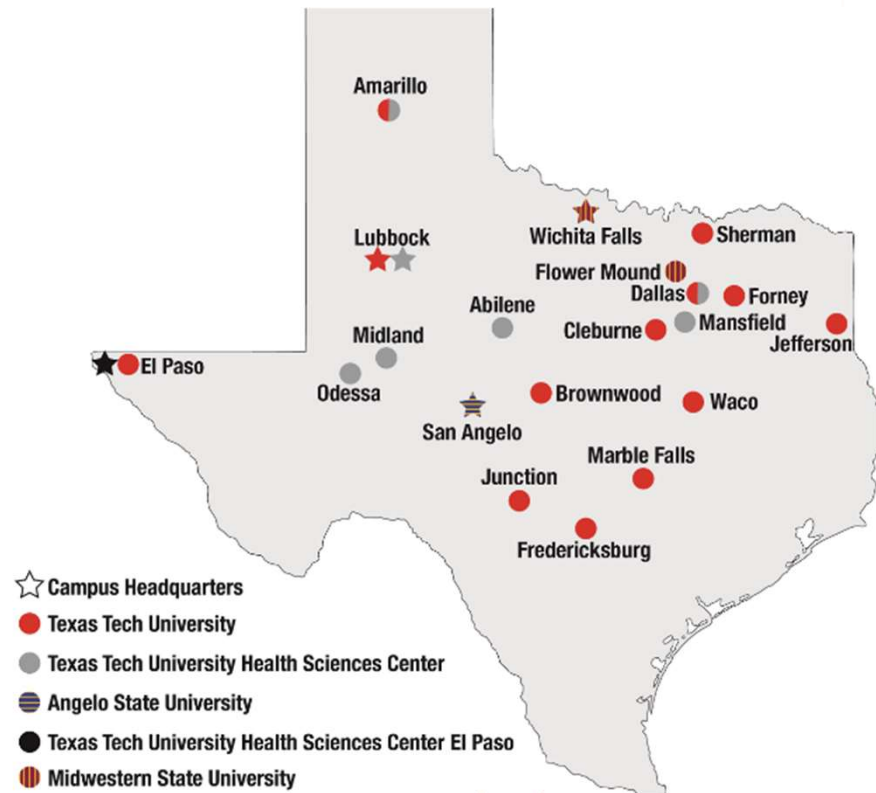
Deborah J. Clegg, Ph.D.
Senior Vice President for Research
TTUHSC El Paso

Lance McMahon, Ph.D.
Senior Vice President for Research & Innovation
TTUHSC

TEXAS TECH UNIVERSITY  HEALTH SCIENCES CENTER™

HEALTH SCIENCES COLLABORATIVE UPDATE

- Brain Repository
- Metabolic Health
- ARPA H Spoke
- Next Steps



COLLABORATIVE BRAIN REPOSITORY

- Collaborating with El Paso and Lubbock Chairs to standardize brain bank biobanking protocols facilitates seamless integration between research units
- Upcoming collaborative opportunities between institutions include:
 - Brain Bank Data Exchange
 - Donor Tissue Pipelines
 - Lone Star Brain Consortium, Neurology Research
 - Blood Brain Flow
 - One Health Innovation Institute Workshop



METABOLIC HEALTH

- Collaborating in planning upcoming TTU Obesity Center Institute Meeting to be hosted on May 1st 2024
- Successfully hosted the One Health Innovation Workshop, highlighting research collaborations in metabolic health
 - Identified joint need for nutritional bioinformatics to boost external funding competitiveness
 - Prioritized the development of organic collaborations
 - Emphasized the importance of community engagement in research



SPOKE MEMBER UPDATE

- TTUHSC collaborates with DFW ARPA-H Customer Experience Hub, focusing on patient-centric healthcare advancements to enhance outcomes for all Americans.
- TTUHSC hosts successful ARPA-H Spoke visit, introducing directors to HSC faculty portfolio, including El Paso. Future plans involve partnerships to expand cancer access and bridge advanced healthcare programs to rural communities.

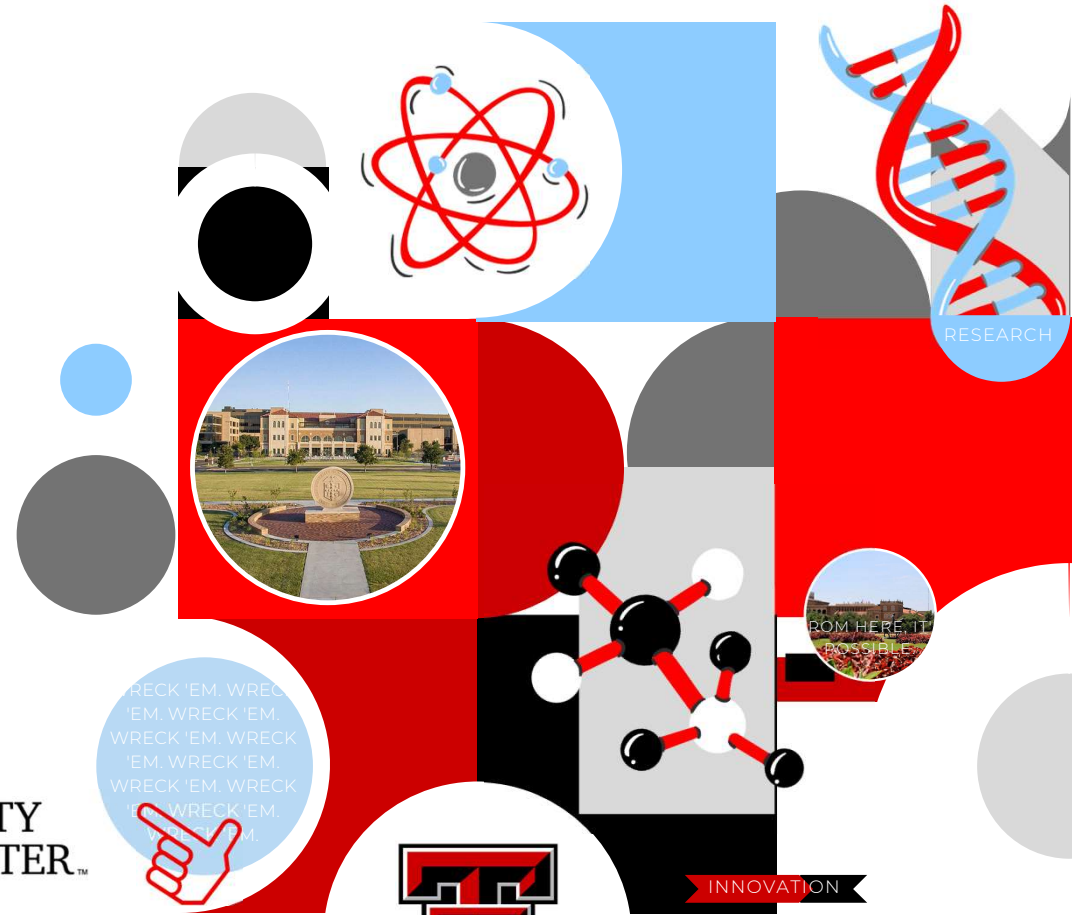


BREAKING DOWN INSTITUTIONAL COLLABORATIVE BARRIERS

- Active in cross-training both Institutional Research Compliance Offices in audit procedures and operational protocol standardization to streamline Human Subject Research Protocol Approvals and ensure consistency between El Paso and Lubbock campuses.
- Establishing uniform language in clinical trial agreements, where applicable, in order to streamline the operation of clinical trials within the administrative space.
- Enabling collaboration by allowing medical students from both El Paso and Lubbock to access medical records for their research. This initiative is supported by Lubbock's Clinical Research Institute, which facilitates electronic health record retrospective studies at both HSCs.



Institute for One Health Innovation



INNOVATION

PROGRESS UPDATE

Joint Degree – One Health PhD from TTUHSC and TTU

- TTUHSC submitted a planning notification to the Texas Higher Education Coordinating Board with intent to create a joint PhD program in One Health Sciences in collaboration with TTU
- TTUHSC and TTU teams will share in the development of the comprehensive proposal for the joint degree

Articulation Agreements:

- One Health PhD (TTU) – Pharm Sci MS (TTUHSC)
- One Health PhD (TTU) – Masters of Public Health (TTUHSC)
- Doctor of Veterinary Medicine (TTU) – Masters of Public Health (TTUHSC)
- Therapeutic Riding Collaboration between Davis College (TTU) – School of Health Professions (TTUHSC)



FROM THE
IT'S POSSIBLE.

RESEARCH

COLLABORATIONS



96

Joint Publications

\$3.75M
Funded

13
Joint Awards
Increase of 5

\$7.5M
Proposed

19
Joint Proposals
Increase of 8

PROGRESS UPDATE

On October 6, 2023 we hosted our first TTU & TTUHSC One Health Innovation Research Workshop with a focus on Cancer Research at the Innovation Hub with 48 attendees.



PROGRESS UPDATE

- On November 30, 2023 we transported 40 faculty/staff from TTU & TTUHSC to attend the School of Veterinary Medicine's One Health Faculty Research Club event.
- December 1, 2023 – Held our Second One Health Innovation Workshop at TTUHSC ACB Lbk focusing on Metabolic Health with 36 total attendees from TTU and TTUHSC.



PROGRESS UPDATE

- Established open engagement between Research Compliance and Integrity Offices with OHI Sub-committees to build awareness around currently established pathways for collaboration.



- High Performance Computing Center (HPCC) Memorandum of Understanding Agreement between TTU and TTUHSC is under development between both Chief Information Officers and TTU HPCC Director.



FROM HERE,
IT'S POSSIBLE.

WHAT HAPPENS NOW?

