Lone Star UAS Center of Excellence and Innovation

CPIRA

January 17, 2019
LSUASC Tasks To Success

- **Educate Students**
  - Support Faculty
  - Student Involvement
  - Interns/Work Study/Graduate Assistants

- **Increase Knowledge**
  - FAA Test Center
  - Public Safety (Air Wing 1)
  - R&D Focus Areas Research
  - Commercialization
  - Community Engagement

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![Diagram](path_to_image.png)

**1. Experiential Learning**
Real-world application of knowledge in a variety of clients' projects

**2. Community Engagement**
Engage in community projects with community partners to make a difference in the local community

**3. Cross-Unit Collaboration**
Case studies of selected Capstone projects

**4. Research Enhancement**
Provide grants to further research development

**5. Financial Stability**
Offer competitive wages/stipend and/or college credit scholarship to recruit top-notch students to work for TAMU-CC

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Research Center
Test Site Purpose

>3,100 Sorties Flown Since FAA Certification

Stand Up And Operate A FAA UAS Test Site Designated To Safely Integrate Civil and Public (DOD) UAS Operations Into The National Airspace (NAS).

Guide Industry (US and Foreign) through the FAA safety and maturity process required to safely integrate Commercial UAS operations into the NAS.

Provide FAA R&D And Operational Data To Facilitate The Development Of Procedures, Standards And Regulations For Safe UAS Operations in the NAS.

Example of recent NASA mission flown at the LSUASC
Student Success Focus

STUDENT PYRAMID PLACEDHOLDER

- Student Success
- Full-Time Employment Opportunities
- Project-Based Employment Opportunities
- Graduate Assistants
- Student Assistants
- Interns/College Credits

Bringing UAS to America’s Skies
All Information is LSUASC Proprietary
R&D Focus Areas

LSUASC
- Detect and Avoid
- Control and Communications
- Human Factors
- UAS Traffic Management
- Autonomous Behavior
- Cybersecurity
- T&E of UAS standards, processes and procedures

FAA
- Detect and Avoid
- Control and Communications
- Human Factors
- Navigation
- Surveillance
- Forecasting
- Safety, Data and Reliability
Texas Test Ranges and Infrastructure
~68,000 Square Miles, National Class G

Lone Star UAS Center Test Ranges
>68,000 square miles of FAA approved UAS test ranges

54,000 square miles of remote range available in the Texas Panhandle

UAS Research and Test
68,000 sq. miles in UAS test ranges National Class G Airspace UAS Testing

Legend
Active Ranges
Operational Area

Our Mission Control Center
Remote C2 for UAS Night Operations
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