

HSU EDUCATIONAL
FOUNDATION

UAS

CENTER OF EXCELLENCE



HSU Unmanned Aircraft Systems (UAS) Center of Excellence provides and supports UAS training and certification, UAS research and development (R&D), and UAS test flight operations and evaluation services at HSU Innovation Institutes and STEM Range facilities in Okaloosa County, Northwest Florida.



Through unique and diverse public private partnerships, this 501(c)3 not for profit organization is committed to participating in the safe and innovative integration of unmanned aircraft systems into the National airspace.



UAS training and certification



UAS test flight range for training, testing, research and development



Aerospace Engineering Services



FieldWerx collaborative environment in partnership with AFRL and 1 SOW



Access to Bob Sikes Airport (KCEW)



Stimulating economic development in Okaloosa County, Florida



The HSU Innovation Institute North campus is situated on 20 acres at the North end of the 8,000 foot runway of Bob Sikes Airport in Crestview, FL. The campus includes the HSU UAS Center of Excellence and the Northwest Florida State College Aviation Center of Excellence.



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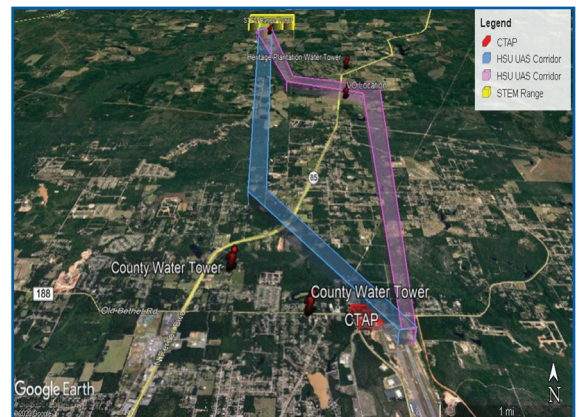
HSU STEM Range



Located just 8 miles North of the HSU Innovation Institute North campus, the HSU STEM Range is 400 acres of rural, diverse topography surrounded by 8,000 acres of conservation land. The range is conveniently located in Class G airspace, providing a safe and effective environment for UAS flight test and evaluation, training, research and development.

HSU UAS Center of Excellence and BVLOS Corridor

The HSU Innovation Institute North campus located in the Crestview Technology Air Park (CTAP), features the HSU UAS Center of Excellence with a BVLOS (under FAA COA) corridor connecting to the HSU STEM Range to support the development and testing for unmanned traffic management and advanced air mobility research.



Texas A&M - Lone Star UAS Center of Excellence and Innovation Partnership



LONE STAR UAS
CENTER OF EXCELLENCE & INNOVATION



Among the many key partnerships of the HSU Educational Foundation, a Master Research and Teaming Agreement with Texas A & M - Lone Star UAS Center of Excellence and Innovation, provides significant value in the expanded capabilities and resources of the HSU UAS Center of Excellence.

Industry Specific UAS Training



The HSU UAS Center of Excellence provides corporate custom training to meet industry needs in a wide scope of applied fields such as agriculture, law enforcement and first responders, intelligence gathering, traffic management, tactical communications, inspections and more.

One recent completed contract awarded to the HSU Foundation is the first ever established UAS Training

Program for AFSOC Engineering Divisions in the applied use of UAS in building inspections.

FAA-Approved Test Administrator

HSU Educational Foundation is an FAA-approved Test Administrator of The Recreational UAS Safety Test (TRUST).



Through collaboration with the FAA, TRUST Test Administrators provide educational safety material to Recreational Flyers and administer testing for certification.

Drone Advisory Committee



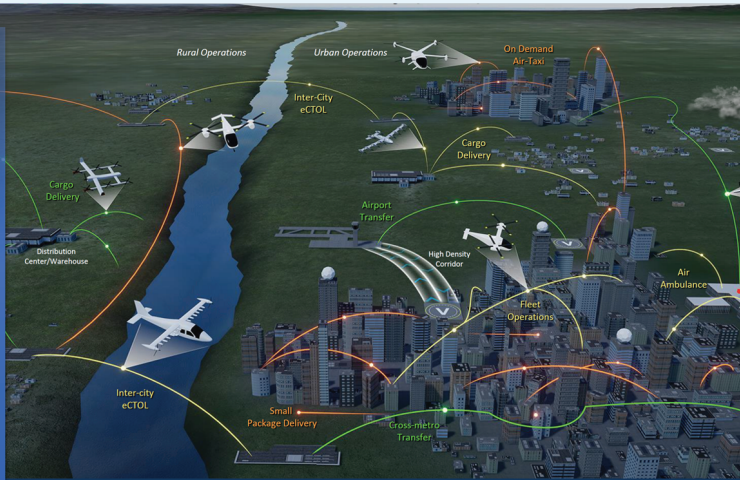
Representing the HSU Educational Foundation in the category of Growing Airport Communities, Chairman Dr. Paul Hsu was appointed by the USDOT Secretary to a two year term of service on the

FAA Drone Advisory Committee (DAC). The DAC is a Federal advisory committee that provides the FAA with advice on key UAS integration issues by helping to identify challenges and prioritize improvements.

Building a UAS Ecosystem

Three Critical Components of a UAS:

- 1) An autonomous or human-operated control system vehicle (aircraft, boat, car, train, etc.)
- 2) An Unmanned Aerial Vehicle (UAV), aka "Drone"
- 3) A command and control (C2) system, aka the "Comm-link"



UAS Ecosystem:

- 1) The UAV
- 2) The Ground Control Station
- 3) The C2 Network
- 4) Research, Innovation, and Data Exploitation
- 5) The Airspace Management System: UAS Traffic Management (UTM) & Advanced Air Mobility (AAM)

Capabilities

- ⊙ UAS Operations
- ⊙ Technical & Program Management
- ⊙ Sustainment and Training
- ⊙ Design & Systems Engineering
- ⊙ Integration & Testing
- ⊙ UAS Systems Life Cycle Management
- ⊙ Capability Design to meet customer requirements
- ⊙ Systems of Systems Integration
- ⊙ Data Transport via satellite and other RF techniques
- ⊙ Sustainment and Training
- ⊙ DT&E and OT&E
- ⊙ Capability Lifecycle Management



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