



Griffiss International Airport UAS Innovation Campus



The Griffiss International Airport (GIA) hosts the NY UAS Innovation Campus at the Innovare Advancement Center and includes the **New York Unmanned Aircraft System Test Site (NYUASTS)**, **SkyDome** and a **UAS Mobile Operations Center**.

The NYUASTS is one of seven UAS test sites in the United States designated by the FAA with experienced personnel ready to support crewed and uncrewed platform and payload testing.

The NYUASTS is an instrumented and configurable testbed with real-time reach back to a State-of-the-Art Operations and Data Management Center.

The instrumented wired and wireless infrastructure supports real-time data collection from Ground-Based Sense and Avoid capabilities including a Saab ASDE-X Multilateration System, a Saab SR-3 Airport Surface Movement Radar, a SRC LSTAR Radar, multiple SRC/ R1400 Radars, and numerous uAvionix Ping Stations.

NYUASTS is the only FAA designated test site at a towered airport, surrounded by Class D airspace with a FAA Certificate of Waiver Authorization, enabling a unique test environment with the ability to do simultaneous manned and unmanned operations.



Griffiss International Airport is a FAA Part 139, Class IV Certification and TSAR 1542 Security Compliant airport. Features include:

- 1,680 acres equipped with primary runway measuring 11,820 feet in length by 200 feet in width
- Active control tower, non-precision GPS approaches to both runways and precision instrument landing system (ILS) on Runway 33, accommodating operations of all aircraft in civil and military fleets.

A Letter of Agreement between the NYUASTS and the FAA Contracted Tower establishes four UAS flight areas at and around GIA. The zones allow multiple UAS operations to be executed simultaneously with manned operations. Access to Class A, C, D, E, and G airspace above varied terrain, inland lakes, coastal and maritime areas.

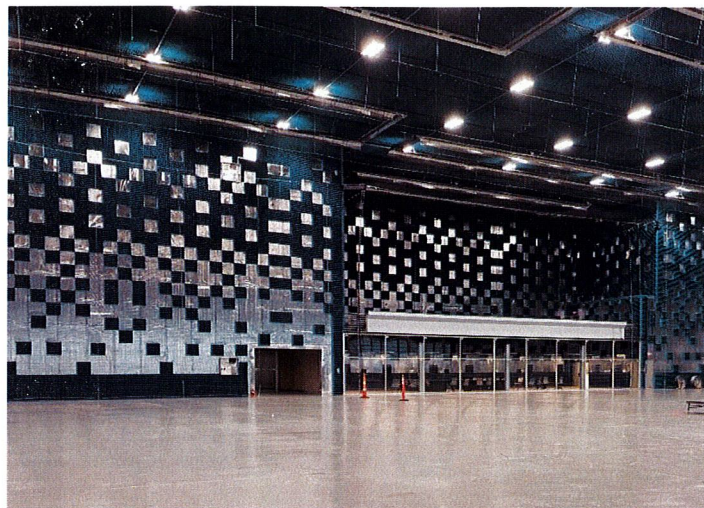
A Memorandum of Understanding with AFRL Information Directorate (Rome Lab) is in place to allow AFRL/R.I to utilize the vast array of resources available at the GIA to perform tests and evaluation of the research and technology being developed by AFRL/RI.

SkyDome is adjacent to the NYUASTS Operations Center and is the largest (known), indoor/outdoor instrumented UAS Internet of Things (IoT), Cyber Physical System (CPS) experimentation environment in the country that will support year-round development and test of advanced UAS technologies including Radio Frequency (RF) spectrum for command and control and applications for detect and avoid, vehicle to vehicle to communications, mobile networking, IoT, CPS, and autonomous swarms.

Solve problems and know the risks before flying in the “Wild”.

SkyDome features include:

- 140'x140'x40' indoor facility connected to a 150'x80'x72' netted outdoor facility (to be completed).
- indoor flying space shielded by at least 40 decibels (dB) from 400 MHz to 6 GHz, and by at least 50 dB from 900 - 1800 MHz
- mounting equipment (up to 110 pounds per hard point) inside the flying space
- Control and Data Management Center
- Flexible wired, and wireless communications infrastructure
 - 16 instrumentation junction boxes are connected to the server room with lightning-protected, filtered power; fiber optic networks (including multiple dark single-mode OS2 fibers for expansion); and RF coaxial cable



The **NYUASTS UAS Mobile Operations Center** can be integrated with the NYUASTS or used as a stand-alone capability.

Features include:

- 3 workstations (GCSs) with two 4K monitors
- Cradle Point Modem for LTE Connectivity
- Indoor and outdoor Wi-Fi access points
- VHF radio with external antenna
- Handheld radios for ground support communications
- Indoor and outdoor 55" smart monitors
- 3x 4 MP cameras for event viewing/recording
- Onboard weather station with network interface
- 40' mast with 300-lb capacity and AC, DC, RF and Ethernet cables
- Rear ramp for easy on-load/off-load of equipment.



The FAA-designated New York UAS Test Site offers unique airspace, terrain and resources to support your organization's research and test needs. For more information, contact Mr. Ed Arcuri, Commissioner, Griffiss International Airport at earcuri@ocgov.net or MC Chruscicki at mary.chruscicki@axenterprize.com.