



TCSG-363 AVIATION TRAINING ACADEMY
CHATTAHOOCHEE TECHNICAL COLLEGE

THE SKY IS THE LIMIT





FLIGHT CREW



CROFT

Chattahoochee Tech Based Crew



Dr. Ron Newcomb
President, Chattahoochee
Technical College



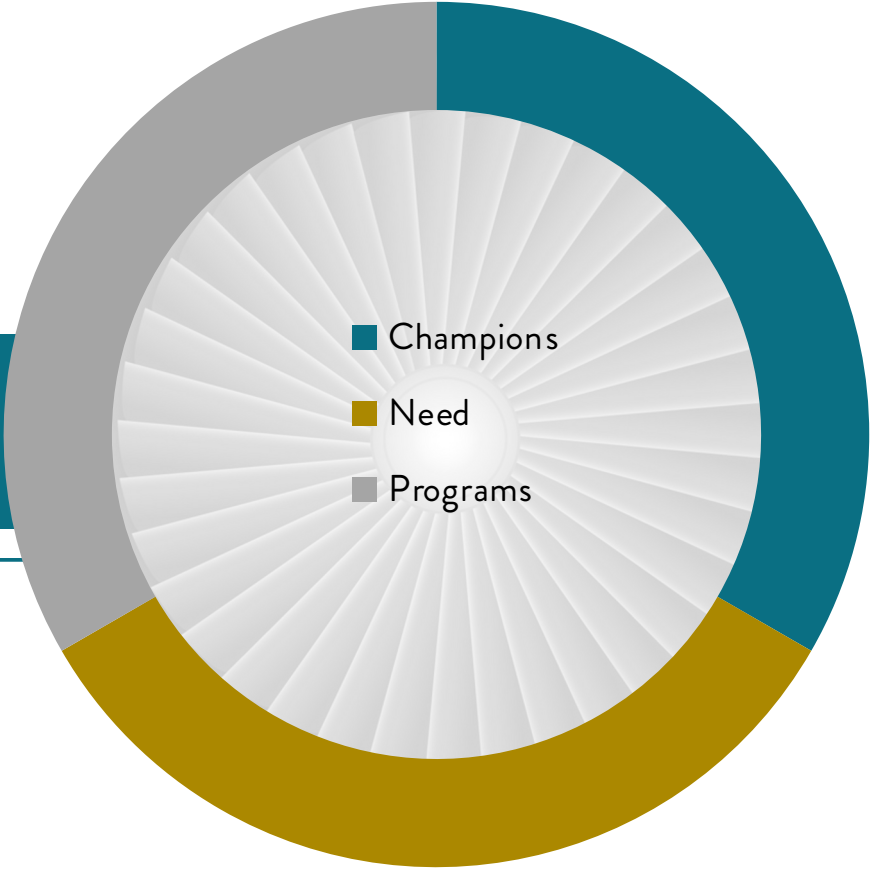
Kip Stokes, PE, LEED AP
Principal-in-Charge
CROFT



Matthew Petz, RA
Project Architect
CROFT

Flight Mission

Train Students in Aviation
Maintenance Technology Programs



Role of the Champions in Getting It Done

The Need for Workforce is Great

The Programs to Make It Fly





CHAMPIONS



CROFT

Champions

Champions Persist in a Flight Plan

* Fall 2018

- Destination Set

Champions



Governor Deal's
Announcement

Champions

Champions Persist in a Flight Plan

- * Fall 2018

 - Destination Set

- * Winter 2019

 - \$35,000,000 and
a Parcel at Paulding

Champions

HB 30

Track Sheet

FY2019A

Section 46: Technical College System of Georgia		Gov Rec		House		Senate		As Passed	
		State Funds	Total Funds	State Funds	Total Funds	State Funds	Total Funds	State Funds	Total Funds
FY2019 Budget	HB 1EX	\$368,645,030	\$907,352,166	\$368,645,030	\$907,352,166	\$368,645,030	\$907,352,166	\$368,645,030	\$907,352,166
46.1. Adult Education	HB 1EX	\$16,738,289	\$44,065,968	\$16,738,289	\$44,065,968	\$16,738,289	\$44,065,968	\$16,738,289	\$44,065,968
46.1.1 ^(B) Reflect an adjustment to agency premiums for Department of Administrative Services administered self insurance programs.		\$4,720	\$4,720	\$4,720	\$4,720	\$4,720	\$4,720	\$4,720	\$4,720
	<i>Program Net</i>	\$4,720	\$4,720	\$4,720	\$4,720	\$4,720	\$4,720	\$4,720	\$4,720
	HB 30	\$16,743,009	\$44,070,688	\$16,743,009	\$44,070,688	\$16,743,009	\$44,070,688	\$16,743,009	\$44,070,688
46.2. Departmental Administration (TCSG)	HB 1EX	\$11,533,367	\$11,538,367	\$11,533,367	\$11,538,367	\$11,533,367	\$11,538,367	\$11,533,367	\$11,538,367
46.2.1 ^(B) Reflect an adjustment to agency premiums for Department of Administrative Services administered self insurance programs.		\$1,813	\$1,813	\$1,813	\$1,813	\$1,813	\$1,813	\$1,813	\$1,813
	<i>Program Net</i>	\$1,813	\$1,813	\$1,813	\$1,813	\$1,813	\$1,813	\$1,813	\$1,813
	HB 30	\$11,535,180	\$11,540,180	\$11,535,180	\$11,540,180	\$11,535,180	\$11,540,180	\$11,535,180	\$11,540,180
46.3. Economic Development and Customized Services	HB 1EX	\$3,391,799	\$30,759,166	\$3,391,799	\$30,759,166	\$3,391,799	\$30,759,166	\$3,391,799	\$30,759,166
	<i>Program Net</i>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	HB 30	\$3,391,799	\$30,759,166	\$3,391,799	\$30,759,166	\$3,391,799	\$30,759,166	\$3,391,799	\$30,759,166
46.4. Governor's Office of Workforce Development	HB 1EX	\$0	\$82,841,035	\$0	\$82,841,035	\$0	\$82,841,035	\$0	\$82,841,035
	<i>Program Net</i>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	HB 30	\$0	\$82,841,035	\$0	\$82,841,035	\$0	\$82,841,035	\$0	\$82,841,035
46.5. Quick Start	HB 1EX	\$11,236,142	\$11,251,639	\$11,236,142	\$11,251,639	\$11,236,142	\$11,251,639	\$11,236,142	\$11,251,639
46.5.1 ^(B) Reflect an adjustment to agency premiums for Department of Administrative Services administered self insurance programs.		\$1,835	\$1,835	\$1,835	\$1,835	\$1,835	\$1,835	\$1,835	\$1,835
	<i>Program Net</i>	\$1,835	\$1,835	\$1,835	\$1,835	\$1,835	\$1,835	\$1,835	\$1,835
	HB 30	\$11,237,977	\$11,253,474	\$11,237,977	\$11,253,474	\$11,237,977	\$11,253,474	\$11,237,977	\$11,253,474
46.6. Technical Education	HB 1EX	\$325,745,433	\$726,895,991	\$325,745,433	\$726,895,991	\$325,745,433	\$726,895,991	\$325,745,433	\$726,895,991
46.6.1 ^(B) Reflect an adjustment to agency premiums for Department of Administrative Services administered self insurance programs.		\$147,814	\$147,814	\$147,814	\$147,814	\$147,814	\$147,814	\$147,814	\$147,814
46.6.2 Increase funds for Chattahoochee Technical College to establish an Aviation Academy at Silver Comet Field at the Paulding Northwest Atlanta Airport.		\$35,000,000	\$35,000,000	\$35,000,000	\$35,000,000	\$35,000,000	\$35,000,000	\$35,000,000	\$35,000,000
	<i>Program Net</i>	\$35,147,814	\$35,147,814	\$35,147,814	\$35,147,814	\$35,147,814	\$35,147,814	\$35,147,814	\$35,147,814
	HB 30	\$360,893,247	\$762,043,805	\$360,893,247	\$762,043,805	\$360,893,247	\$762,043,805	\$360,893,247	\$762,043,805

Champions

Champions Persist in a Flight Plan

* Fall 2018

- Destination Set

* Winter 2019

- \$35,000,000
and a Parcel at Paulding

* 2019-2022

- A Persistence on Flying

Champions

Champions Persist in a Flight Plan

- * Fall 2018

 - Destination Set

- * Winter 2019

 - \$35,000,000 & a Parcel at Paulding

- * 2019-2022

 - A Persistence on Flying

- * September 2022

 - The Ground is Broken

Champions

Save THE Date

Friday, September 9, 2022 at 9:30am

Groundbreaking for the
Chattahoochee Technical College
Aviation Training Academy



A Unit of the Technical College System of Georgia. Equal Opportunity Institution.

**Chattahoochee Technical College
Aviation Training Academy**

(adjacent to the Paulding Northwest Atlanta Airport)

570 Airport Parkway
Dallas, GA 30157

Please Join Us

Friday, September 9, 2022 at 9:30am



Groundbreaking for the
Chattahoochee Technical College
Aviation Training Academy

Chattahoochee Technical College
Aviation Training Academy
(adjacent to the Paulding Northwest Atlanta Airport)

570 Airport Parkway
Dallas, GA 30157

Please RSVP to Tammy Collum at tcollum@ChattahoocheeTech.edu



A Unit of the Technical College System of Georgia. Equal Opportunity Institution.



CROFT

Champions



On the Need

○ Workforce, Workforce,
Wherefore Art Thou, Workforce?

* Hartsfield-Jackson International Airport
-Busiest in the World

On the Need

○ Workforce, Workforce,
Wherefore Art Thou, Workforce?

THURSDAY, APRIL 6, 2023 THE ATLANTA JOURNAL-CONSTITUTION

MORE OF TODAY'S TOP NEWS

HARTSFIELD-JACKSON

Airport declared busiest in world by wide margin

Passenger counts still down 15% from pre-pandemic levels.

By Kelly Yamanouchi
kelly.yamanouchi@ajc.com

Hartsfield-Jackson International has once again been declared the world's busiest airport, according to an official ranking.

With 93.7 million passengers passing through in 2022, the Atlanta airport had more traffic than any other in the world, according to industry group Airports Council International World.

Dallas/Fort Worth International took the No. 2 spot with 73.4 million passengers, while Denver International was third with 69.3 million.

Before the COVID-19 pandemic, Atlanta consistently ranked as the world's busiest airport, but Hartsfield-Jackson was briefly surpassed by an airport in Guangzhou, China, in 2020. Atlanta regained its crown a year later.

Hartsfield-Jackson's passenger counts last year were still down 15% from its record 110.5 million passengers in 2019, as airports globally stage a recovery from the effects of the pandemic.

Luis Felipe de Oliveira, ACI World's director general, said in a statement that the ranking "reflects the resilience of the airport and aviation industry, and the eagerness of passengers to travel by air."

During the ongoing spring break travel season, long lines, crowds and congestion at Hartsfield-Jackson have made it clear what the impacts are for passengers using the world's busiest airport. Airlines, concessionaires and air traffic control have struggled to keep up with heavy volumes of travelers.

In 2022, the Atlanta airport also handled more flights than any other airport in the world, with 724,145 takeoffs and landings in 2022. Chicago O'Hare had the second-highest number of takeoffs and landings with 711,561.

Other airports abroad handle more cargo and international flights, with Hong Kong International coming in first for cargo tonnage and Dubai International placing first for international passenger traffic.

"While U.S. airports hubs were able to recover quicker due to their strong domestic market, we are now witnessing global hubs joining upper ranks — including Dubai, Istanbul and London Heathrow," according to de Oliveira. "The reopening of China, the second-largest aviation market after the U.S., is now expected to bring an overall gain, both domestically and for international travel."

The ongoing spring break travel season has brought long lines, crowds and congestion to Hartsfield-Jackson International Airport in Atlanta. ARVIN TEMKAR/ARVIN TEMKAR@AJC.COM

FILM INDUSTRY

Georgia sounds space plan New York

State's soundstage footage ranks first

By Rodney Ho | rodneyho@ajc.com

Georgia has the second-most square footage of soundstage space in the world, behind Los Angeles County, according to a report from Los Angeles-based research firm FilmLA Research.

The state, with an estimated 2.8 million square feet of soundstage space as of the end of 2021, has not lost ground since 2019 (2.8 million).

A year earlier, Georgia had 2 million square feet of soundstage space, according to FilmLA Research.

Georgia has the fifth-most soundstage space in the world, behind Los Angeles County, New York and Ontario, California.

Los Angeles County had 6.2 million square feet of soundstage space, up from 5.4 million in 2019. Ontario had 5.4 million. Ontario largely around Toronto, which covers 3.3 million to 3.8 million square feet of soundstage space.

The data collected is already more than Soundstage space is big wide to fulfil growth in recent years, services. But in 2023, slowdown in scripted cutbacks at HBO Max.

This year, Georgia is in soundstages with one of at least three new MARTA stations, Assenville and Lionsgate Douglasville. Athens with 82,000 square feet recently opened, an Fayetteville is adding stages on top of its existing stages.

BY THE NUMBERS

Hartsfield-Jackson International has again been declared the world's busiest airport. Here are five key numbers to know about the Atlanta airport.

- No. 1**
Hartsfield-Jackson International Airport's ranking in the world for passenger numbers and flights, based on 2022 traffic.
- 15.2%**
How much Hartsfield-Jackson's 2022 passenger traffic was down compared with pre-pandemic levels in 2019.
- \$585.1M**
Hartsfield-Jackson's gross revenues from food, beverage, retail and service concessions in 2022.
- 93.7M**
Number of passengers Hartsfield-Jackson handled in 2022.
- 724,145**
Number of takeoffs and landings at Hartsfield-Jackson in 2022.

Source: Airports Council International World, Hartsfield-Jackson

On the Need

○ Workforce, Workforce, Wherefore Art Thou, Workforce?

- * Hartsfield-Jackson International Airport
 - Busiest in the World
- * Number of Airlines and Hubs

On the Need

○ Workforce, Workforce, Wherefore Art Thou, Workforce?

- * Hartsfield-Jackson International Airport
 - Busiest in the World
- * Number of Airlines and Hubs
- * Plus Regional Airports

On the Need

○ Workforce, Workforce, Wherefore Art Thou, Workforce?

- * Hartsfield-Jackson International Airport
 - Busiest in the World
- * Number of Airlines and Hubs
- * Plus Regional Airports
- * Shortages Dramatic

On the Need

○ Workforce, Workforce, Wherefore Art Thou, Workforce?

According to the Bureau of Labor Statistics, the median pay for a certified Aviation Maintenance Technician in 2017 was \$29.45 an hour, or about \$61,000 dollars a year. That pay is often higher in the Atlanta metropolitan region.

Georgia ranks 4th in the nation in the number of individuals employed in this field (behind only TX, FL, and CA). Job outlook for this occupation over the next 10 years exceeds national averages.

On the Need

○ Workforce, Workforce, Wherefore Art Thou, Workforce?

Aviation Maintenance is a high demand career field in need of technicians entering the field. Keeping up with industry growth due to the world's busiest airport in Hartsfield-Jackson, ever-increasing air traffic, responding to an economy that has changed to be based more on direct selling and distribution to customers, and an aging workforce create a situation where Georgia cannot afford to fall behind in this critical area.

Programs

From the Nosecone to Tail

- * Airframe and Powerplant (A&P)
 - Two certificates, Diploma, Degree
- * Aircraft Structural
 - Diploma
- * Avionics Bench Technician
 - Certificate
- * Aircraft Upholstery and Trim
 - Certificate

Programs

From the Nosecone to Tail

* Airframe and Powerplant (A&P) . Two certificates, Diploma, Degree

Airframe TCC

- Students learn the skills to work on the non-engine systems of the aircraft
 - General Aviation will be taught before Airframe (Aviation Math, Physics, and Applied Sciences)
 - Airframe itself are those systems like Hydraulics and Pneumatics; Structures, both metal, and non; Communication and Navigation Systems; Environmental Controls; Assembly and Rigging; Fuel and Instrument systems; Electrical systems

Powerplant TCC

- Students learn skills to work on the engine systems of the aircraft
 - Reciprocating and Gas Turbine Engines; Ignition and Starting systems; Propeller systems; some Accessory systems; Fuel and Engine Metering

Programs

From the Nosecone to Tail

* Aircraft Structural Diploma

Aircraft Structural Diploma

- Students learn the skills to work in the manufacturing and repair of aircraft structures
- Blueprints; Fabrication; Structural Layout; Corrosion Control; Composites, Sealants and Bonded Structures; Aircraft Metallurgy; Aerodynamics; Aircraft Quality Management

Programs

From the Nosecone to Tail

* Aircraft Structural Diploma

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Programs

From the Nosecone to Tail

* Avionics Bench Technician Certificate

Avionics Bench TCC

- Students learn the skills to work with aircraft electronics
- Avionics Maintenance; Advanced Electronics; Digital Electronics; Logic Systems; Communication Systems; Navigation Systems; Flight Director and Auto Pilot Systems

Programs

From the Nosecone to Tail

* Aircraft Upholstery and Trim Certificate

Upholstery and Trim TCC

- Students learn the skills to work in the interior outfitting and refurbishing of aircraft
- Blueprints; Manufacturing Information; Floor Coverings and Trim Fabrication; Aircraft Seating Fabrication

Programs

More Than One at a Time on the Runway

For Example -

First Year:

- * Airframe (of A&P) to have two cohorts of each, day and evening, total of 50
- * Additional students in Aircraft Structural, Aircraft Avionics, or Aircraft Upholstery
- * So, simultaneous programs

Second Year:

Airframe graduates move to Power Plant, restart new cohorts of Airframe and others

Programs

Form Follows Function

- Multiple and Simultaneous Programs Need (Mostly) Their Own Space to Operate
- Allows High Capacity Enrollment
- Ballpark 200 Students at Any Given Time and Multiply the Number of Years
- Let's Talk about the Form



DIRECTION & DESTINATION



CROFT

Direction & Destination



“Roger, Roger.
What’s our Vector Victor?”

Flight Plan



Project No. TCSG-363
Aviation Training Academy
Chattahoochee Technical College

Silver Comet Field at Paulding
Northwest Atlanta Airport
Dallas, Georgia

New 60,000 SF Aviation Academy

Stated (Construction)
Cost Limitation = \$24,000,000

Flight Plan

Vision/Goals

- Instructional Program Requirements
- FAA Certification Requirements
- Student Centric Focus
- Asset for Recruitment of Students and Staff



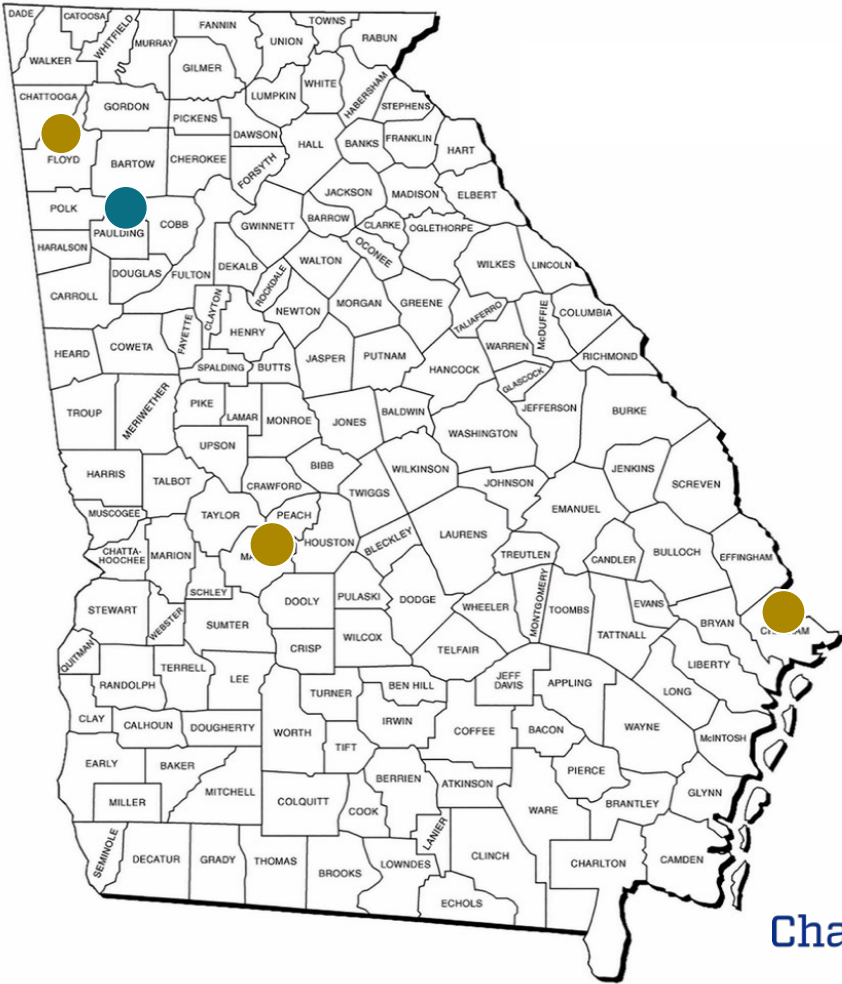
Flight Plan

Programming

- Questionnaires
- Curriculum Interviews
- Facility Maintenance Interviews
- Site Visits to Existing Facilities

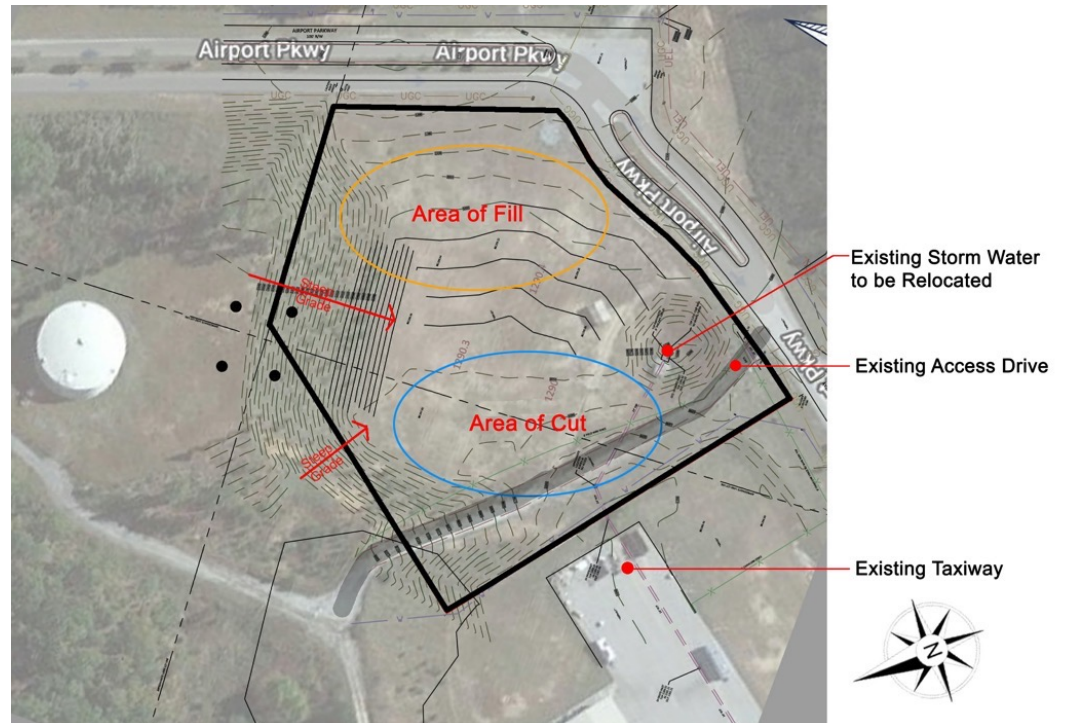


Flight Plan

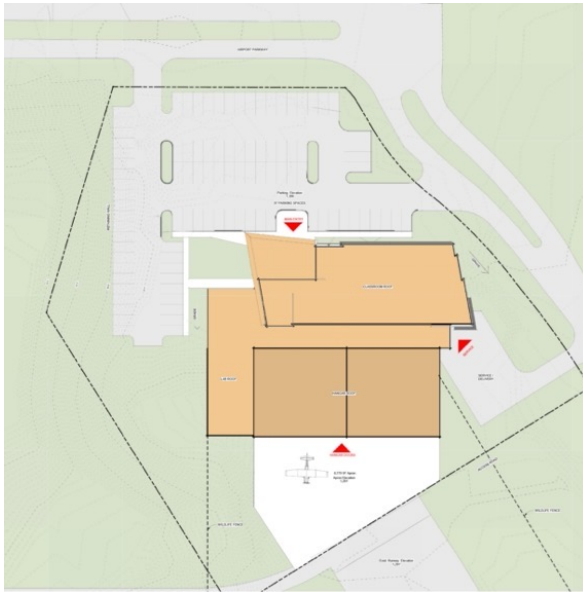


Flight Pre-Check

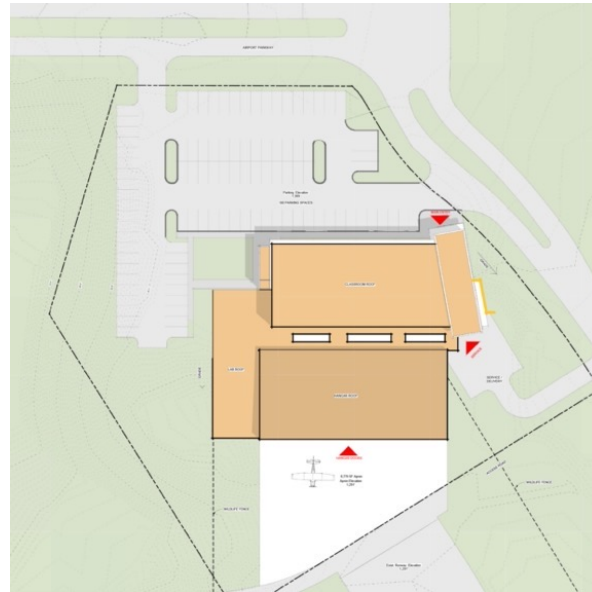
- History of the Site
- Airport Coordination
- Site Due Diligence



Flight Pre-Check - Direction



Headwind Site Option



Tailwind Site Option



Uplift Site Option

Site Plan Concepts

Flight Pre-Check - Direction



Headwind Hangar Level



Tailwind Hangar Level



Uplift Hangar Level

Floor Plan Concepts

Flight Pre-Check - Direction



Headwind Concept

Flight Pre-Check - Direction



Tailwind Concept

Flight Pre-Check - Direction



Uplift Concept

Take-Off



“Nervous?”

“Yes.”

“First time?”

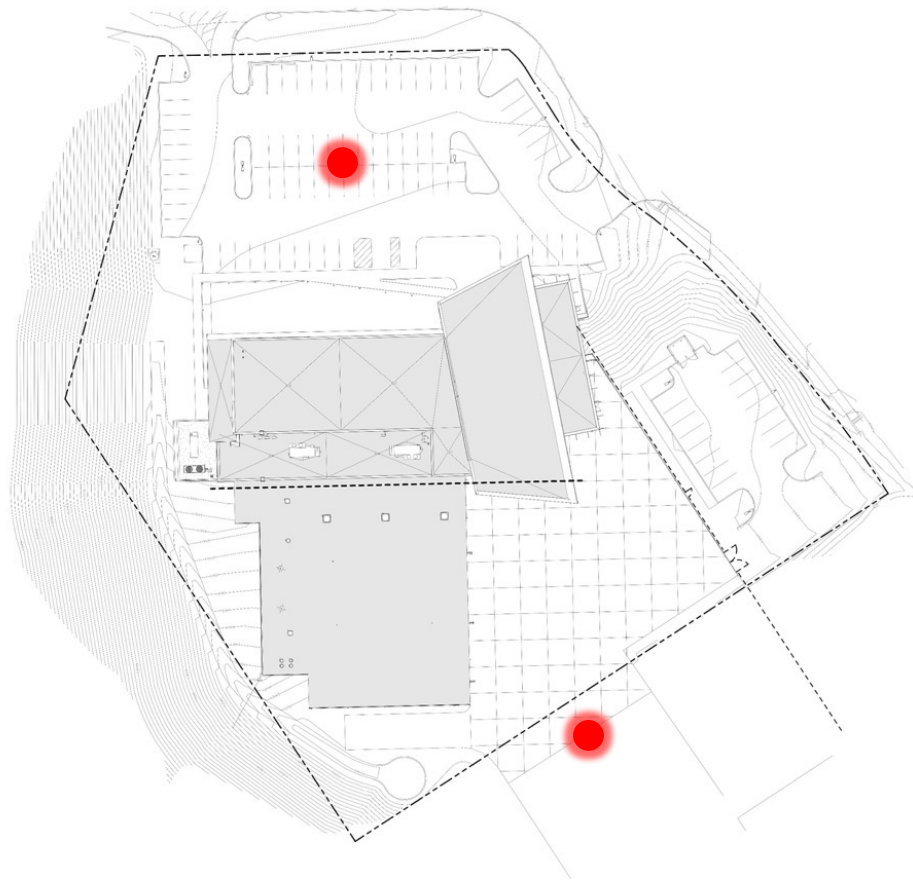
“No, I’ve been nervous lots of times.”

Take-Off Uplift

- Programmatic Relationships
- FAA Certification Requirements
- Challenges and Potential Bumps proactively addressed



Take-Off Uplift



Take-Off Uplift

Level 1 Plan



1. Apron
2. Power Plant Laboratory
3. Air Frame Laboratory
4. Structural Laboratory
5. Composites and Bonding Lab
6. Hangar
7. Parts and Tools Crib
8. Paint Booth
9. Ground Support
10. Storage
11. Loading Dock



Take-Off Uplift

Level 2 Plan

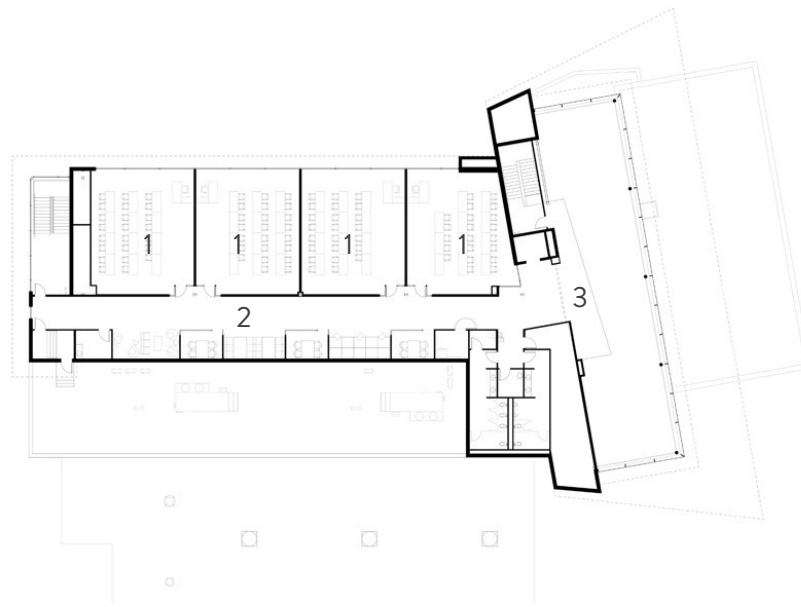


1. Lobby
2. Upholstery and Trim Laboratory
3. Avionics Laboratory
4. Library
5. Computer Lab
6. Classroom
7. Student Collaboration
8. Cafe
9. FAA Testing Lab
10. Administration Offices



Take-Off Uplift

Level 3 Plan



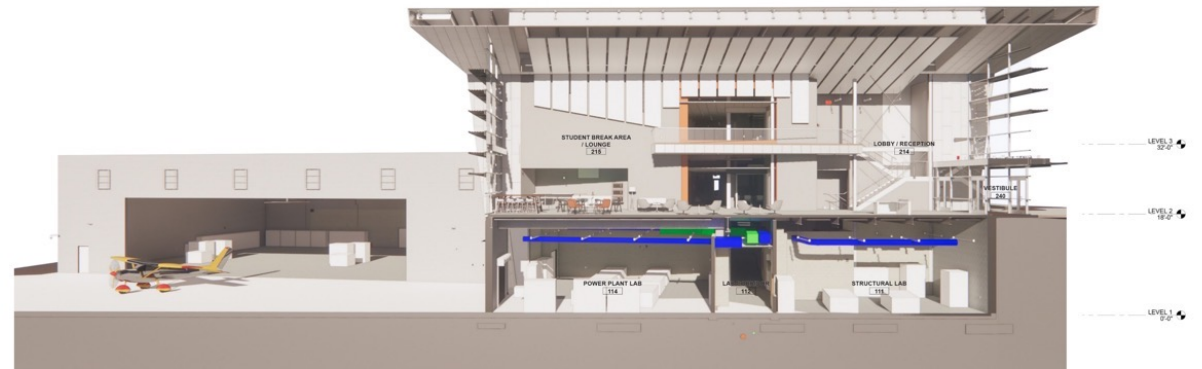
1. Classroom
2. Student Break- Out Spaces
3. Balcony



Take-Off Uplift



1
A-301 BUILDING SECTION 1
NOT TO SCALE



2
A-301 BUILDING SECTION 4
NOT TO SCALE

Take-Off Uplift



Cruising Altitude



“Can you fly this plane and land it?”

“Surely, you can’t be serious?”

“I am serious and don’t call me, Shirley”



Cruising Altitude



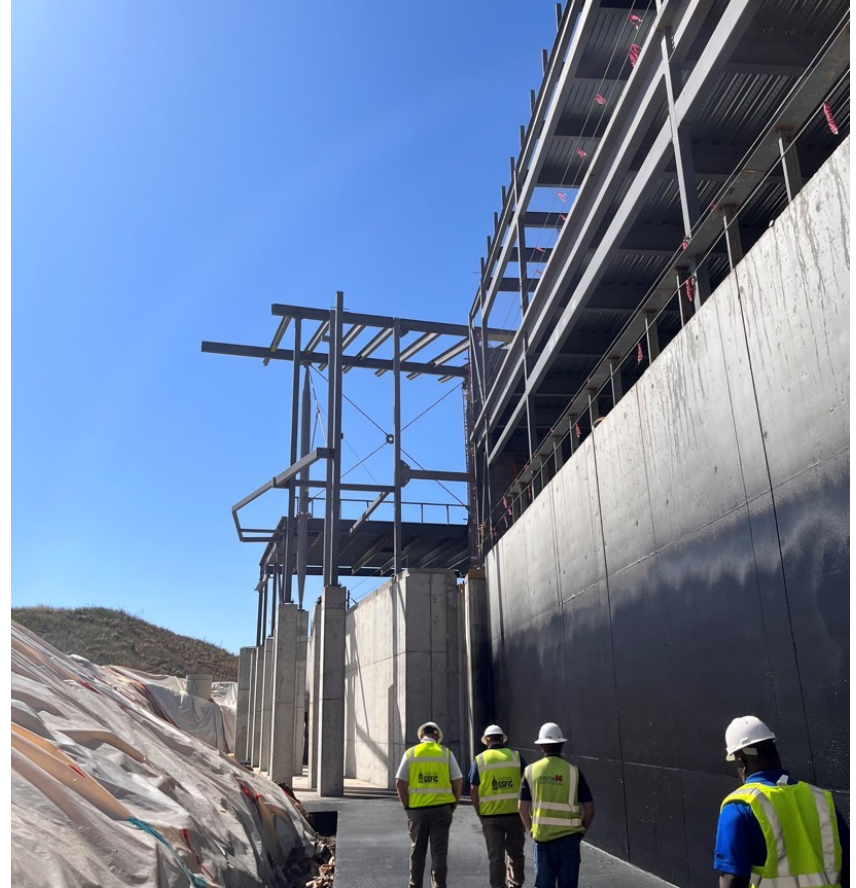
Cruising Altitude



Cruising Altitude



Cruising Altitude









Preparation for Landing



FLIGHT TCSG-363 ARRIVING DECEMBER 2023



