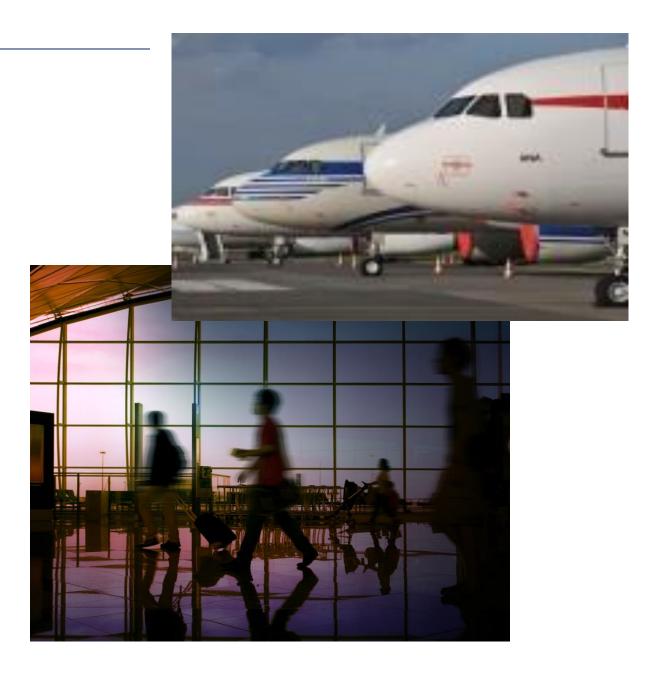


ENGINEERING | TECHNOLOGY | MANAGEMENT | AVIATION



## Today's Discussion Topics

- Overview Vaughn College of
   Aeronautics and Technology
- Programs
- Aviation Industry Projections
- Student and Alumni Experience
- Faculty and Industry Advisors'
- Perspectives
- Career Services



## **Return on Investment (ROI)**



TOP COLLEGE FOR SOCIAL MOBILITY



TOP REGIONAL COLLEGE IN THE NORTH



ABET-APPROVED MECHATRONIC ENGINEERING PROGRAMS IN THE US



95% OF VAUGHN GRADS 78% in their field—are employed or continue their education within one year\*



STUDENT/FACULTY RATIO: 14 STUDENTS 1 FACULTY



OF STUDENTS RECEIVE FINANCIAL AID #1

RANKED #1 IN UPWARD MOBILITY NATIONWIDE<sup>†</sup>

#### THE Vaughn guarantee

Not employed within one year? Vaughn will Reimburse a year's worth of federal Direct student loan payments. <sup>††</sup>

## **AREAS OF STUDY**



Engineering and Technology



Aviation Training Institute



**Aviation** 

Management

VaughnCollege

## **AREAS OF STUDY**



#### Engineering and Technology

Computer Engineering Mechanical Engineering Electrical Engineering Mechatronic Engineering Computer Science Mechanical Engineering Technology (Aeronautical/CAD options) Electronic Engineering Technology (Avionics/General Electronics options) Animation and Digital Technologies Additive and Subtractive Manufacturing \*Uncrewed Aerial Systems



#### **Aviation**

Aircraft Operations (flight) Aeronautical Sciences Airframe and Powerplant Technology Aviation Maintenance Aviation Maintenance Management Air Traffic Control





#### Management

Graduate MS Airport Management Graduate MBA Aviation Management General Management Airport Management Airline Management Safety Management Systems Supply Chain Management \*Uncrewed Aerial Systems Airport Management Airline Management



https://www.youtube.com/watch?v=auuTfmw7YHw



Misael Marquez Mechatronics Engineer ArcBest Technologies

ccounting for Flexibility in Automation Design



Spencer Loveless CEO/Owner of Dustless Technologies arge Scale Mass Productio

arge Scale Mass Production Additive Manufacturing



#### Vaughn College

Engineering &Technology Department 10<sup>th</sup> Annual Manufacturing Day Conference

> October 25, 2024 10:00 am-2:00 pm

10:00 am—2:00 pm Technology & Manufacturing Leadership Session

10 am—2 pm STEM workshop Session on 1) Robotics design, Autonomous programming, 2) Build a drone, 3) Rover design and Manufacturing







#### Vaughn College Journal of Engineering and Technology May 2023



"One Important key to success is self-confidence. An Important key to self-confidence is preparation" – Arthur Ashe

Vaughn College Journal of Engineering & Technology, Spring 2023



## VaughnCollege

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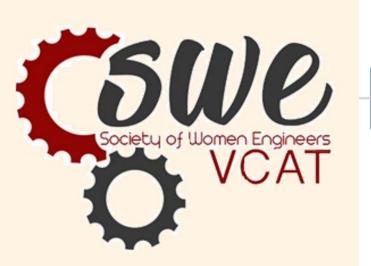
Local of Responsibles and Technology

COLUMN 2



Vertical Flight Society Vertical Flight Society Student Challenge PACKAGE DELIVERY IN THE WILD WEST

MAY 14, 2018 4-6PM @ THE PHOENIX CONVENTION CENTER





F RUM<sup>74</sup>

### Flight

## Air Traffic-Collegiate Training Initiative (AT-CTI)

### **Maintenance Management**

Professional pilot training available in three degrees

Courses include Flight and ATC simulator labs







AT-CTI program is available within eleven degrees at Vaughn College, including Management, Aviation, Avionics

FAA gives hiring preferences to AT-CTI graduates and exemptions from some FAA training

Airframe and Powerplant (A&P) Certificate included in three degrees









## **Business, Airport and Airline Management**

### **Airline Management**

Prepares students for employment in administrative and managerial positions with **passenger and cargo** airlines



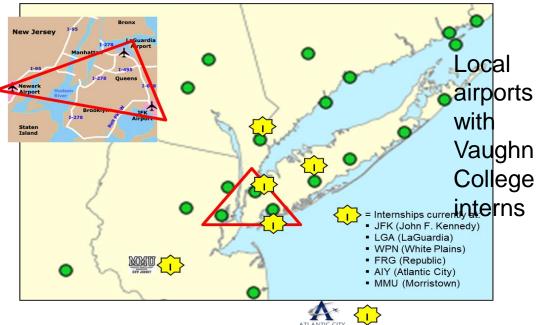
Applications to a Broad Spectrum of Management Careers!





### Airport Management

Entry to mid-level careers







### **Aviation & Related Industries**

Fast-growing Industry Sectors

Government and Regulatory Organizations
 e.g., TSA; FDA; US Customs; Fish & Wildlife

- NGO's, industry professional organizations
- Research and Academia

















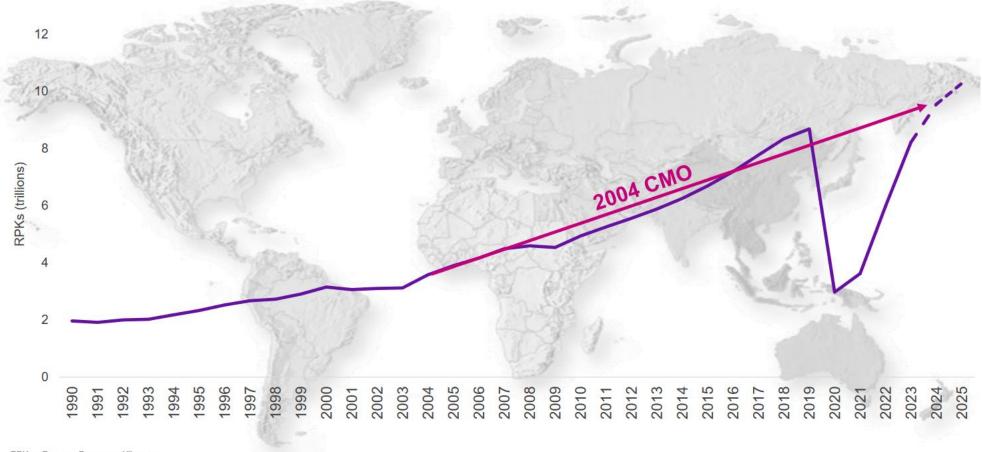
#### ICAO SMS MODEL



Aviation Industry Projections: Demand for more than **44,000 new passenger** aircraft over the next 20 years (i.e., **almost double!**).



# Aviation Industry Projections: *More planes are required because more people are flying and ...*



Believe it or not, traffic is where it was projected

RPKs = Revenue Passenger Kilometers SOURCES: S&P Global Market Intelligence, Boeing Analysis Aviation Industry Projections: ... those who have been flying will be doing *more of it!* 



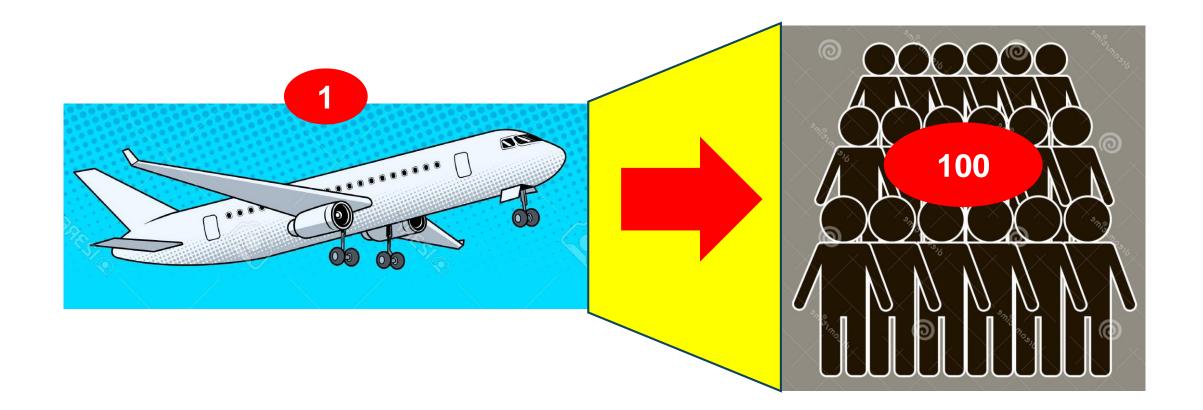
than pre-pandemic

SOURCES: McKinsey, eDreams ODIGEO, Mastercard Economics Institute

travel in their budget

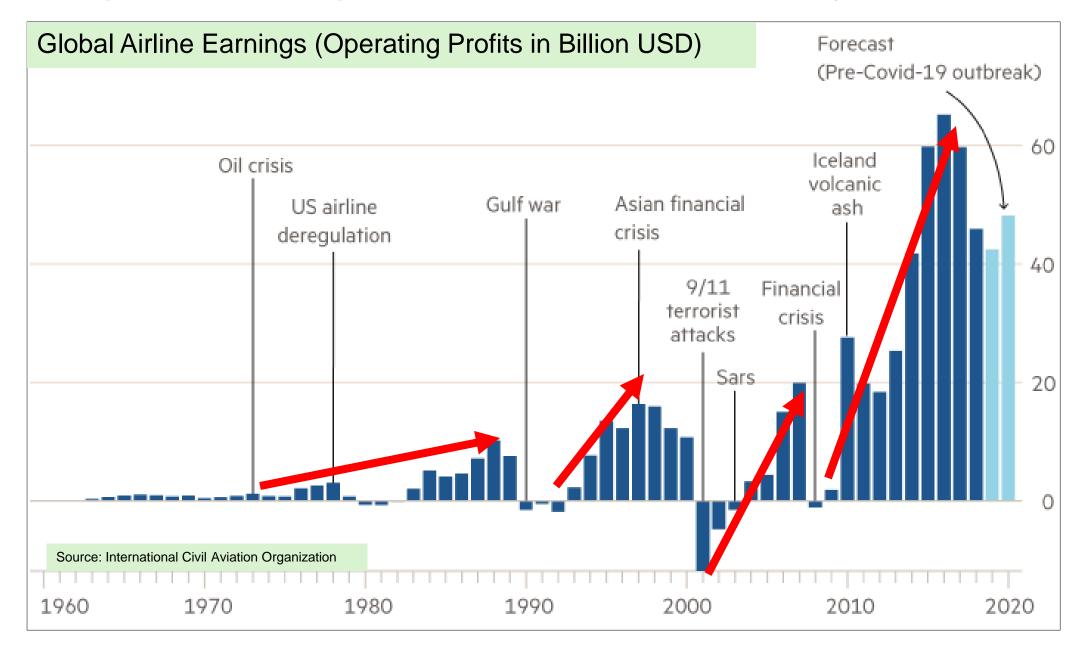
Copyright © 2024 Boeing, All rights reserved. | CSM | DAH | CMOROLL | 16JUL24

### Each New Active Commercial Aircraft Generates 100 New Jobs!!



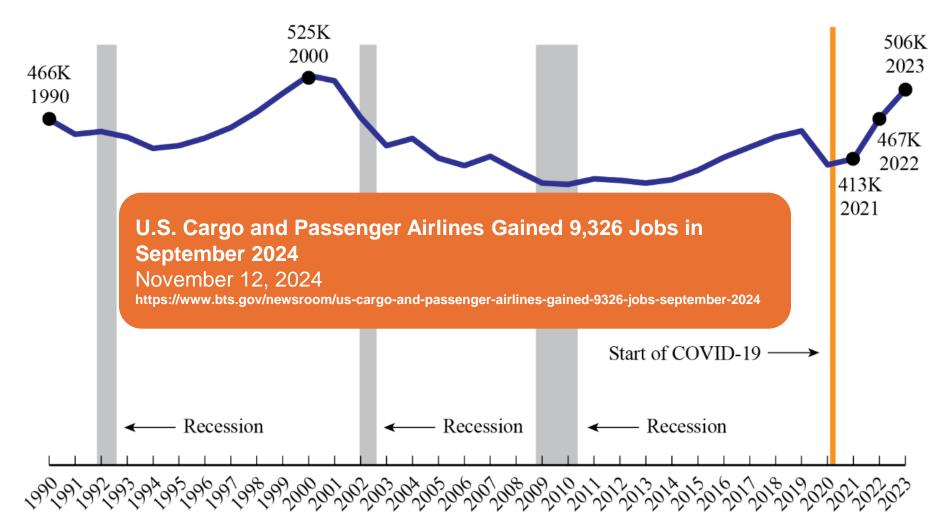
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### Optimistic Expectations!!: Rapid Historical Recoveries after Major Economic Shocks



## Optimistic Expectations!!: Supported by Current Trends





## Student Experience at Vaughn Elvira Peresyvalov



American Association of Airport Executives

AAAE Student Chapter



The American Association of Airport Executives (AAAE) is the largest professional organization for individuals working in airport management and operations.

AAAE is centered around community and industry connections to last a lifetime

CLUB ADVISORS: DR. WILLIAM FARRELL OTHA WARD DEPT. CHAIR: MAXINE LUBNER

## **Clubs and Activities**

- American Association of Airport Executives, Inc. (AAAE)
- Alpha Phi Delta University
- Caribbean Student Association
- Circle K



- Engineers without Borders
- Society of Hispanic Professional Engineers
- Institute of Electrical and Electronics Engineers (IEEE)
- Music Club
- Maintenance Club
- Robotics Club
- Rover (NASA) Club





- Society of Women Engineers
- Student Government Association
- Unmanned Aerial Vehicle (UAV) Club
- Women in Aviation International (WIA)
- Vaughn Air Traffic Control Organization
- Vaughn Flight Crew
- Vaughn Veterans Organization





#### AMERICAN ASSOCIATION OF AIRPORT EXECUTIVES

Belong to a strong, collaborative network of airport professionals who understand the challenges you are facing.

#### What do you gain as a member?

- Exposure: Airport tours
- Connections with people in the industry
- Access to exclusive scholarships
- Eligibility for professional development opportunities such as training and certifications.
- Access to the AAAE Career Center browse and post job opportunities.





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Meet leaders, Become leaders











WELCOME TO THE CLUB EVENT

#### With Guest Speaker Brandon Hiers, PE, ENV SP

Garver Aviation Design Center Leader

Come to learn more about what it is like to work for Garver Aviation. For more than six decades Garver has been designing runways and hangar facilities, rehabilitating taxiways, updating lighting systems with the most advanced technologies, and bringing to life the most welcoming terminal facilities.

> 11am Tuesday November 7th, 2023 Room E203

## **Guest Speaker**





@<u>s.carletz</u> @<u>ellapereyaslov</u> @<u>mohammadn\_wasi</u> @<u>isabellaaluu</u> @flippinman @par.eesaaa

#### VOLUNTEERS FROM @moha @is VAUGHN COLLEGE! @f

Add to your story >

## JFK Rotary Club Volunteering

jetblue.com



## EMPLOYER ENGAGEMENT DAY

FEB 29, 2024





CAREER.SERVICES@VAUGHN.EDU

Join representatives from Lufthansa, current Vaughn students and trainees as they share their experience as well as employment opportunities with this international airline.

MEET THE CURRENT LUFTHANSA TRAINEES TO LEARN MORE!

## Employer Engagement Day





## Focuses:

- Recruitment
- Educating on the value of AAAE involvement
- Coordinating with industry leaders
- Collaborating with other AAAE Student Chapters









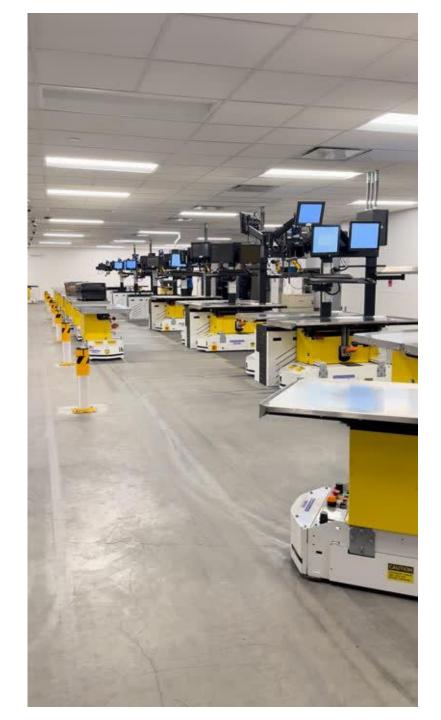


## LaGuardia Tour



## Baggage Handling System (BHS) Tour





### AAAE 96TH ANNUAL CONFERENCE

### 2.5k Aviation professionals

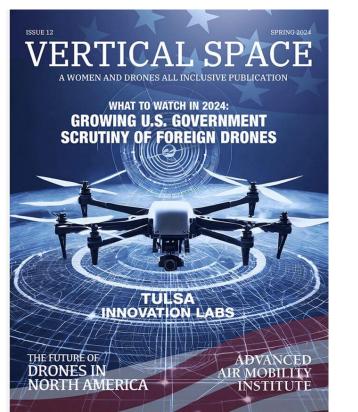
### in attendance

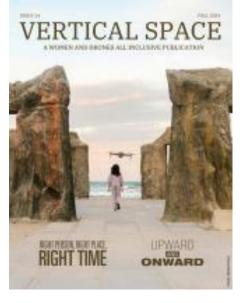




# **250+ Airports** in attendance







## Loretta Alkalay, Esq.

Aviation Attorney Regulatory Consultant Vaughn Adjunct Faculty Member Vaughn Industry Advisory Council Member







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## **Otha Ward**

Born & Raised:

• New York, New York USA

Interests:

 Swimming, Bike Riding, Basketball

Fun Fact:

 I'm a very curious person, I love to ask WHY... I LOVE TO LEARN NEW THINGS



# College Years

- AAAE
- ALASKA Airlines
- IDS DE-ICING
- JFK Airside Internship
  - 2 Million Dollar Clothing Contract, Earned the Port Authority over 200,000 in Parking Lot Fee's Revenue
- Women & Aviation
- Youth Basketball Coach





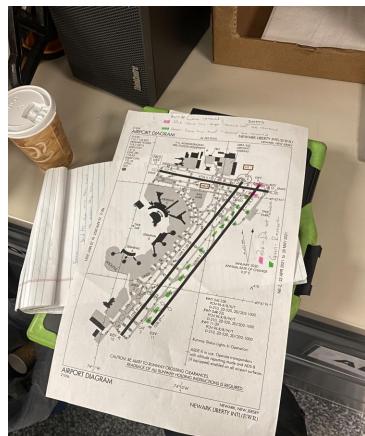


## **Early Career**

- Masters in Public Administration at Fairleigh Dickinson University With a focus in Global Transportation
  - <u>Thesis</u>: Housing Affordability Crisis in America but Specifically in New York
- Vaughn College President's Advisory Board
- Airport Operations Agent
  - Wildlife, Construction, Plane movements, SNOW OPS

## Supervisor

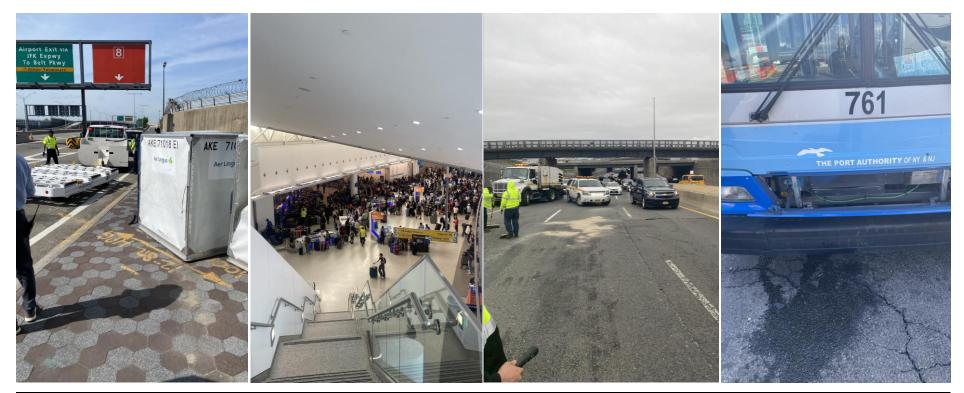




- Wildlife Supervisor (Where my love for Sunrises Started)(2020-2022)
- Airport Operations Center Supervisor (2020-2022)
- Construction Supervisor at Newark (EWR) (March 2021-October 2021) for Runway 4R/22L Rehabilitation
- Adjunct Professor, Vaughn College (Fall 2023 to present)







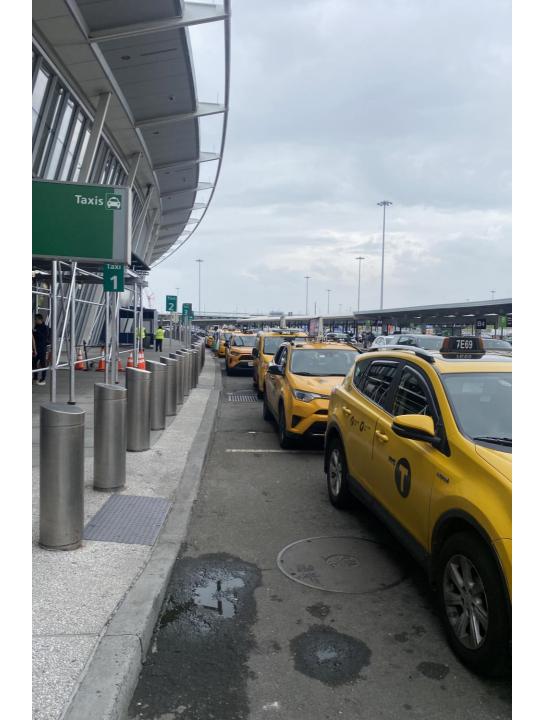
# LANDSIDE Supervisor

Transportation Supervisor (ABM Contract) (74)

Building supervisor (76)

2<sup>nd</sup> Building Supervisor (ABM Contract)(76A)

Security Supervisor (Inter-Con Contract)(78)



## Contract Management

- Contract Administrator for ABM Taxi Dispatch at JFK
- Contract Administrator for Towing contract at JFK
- Contract Administrator for Land side operations Fueling Service
- Contract Administrator for ITS FIDS System



## JFK Redevelopment \$19 billion dollar public/private redevelopment program

#### 🛪 JFK 101

John F. Kennedy International Airport **opened in 1948** as New York International Airport but was commonly known as Idlewild Airport.

- The number of passengers by years 1961 – 10 million
- 2018 60 million
- 2024 63 million
- 2030 75 million projected
- » Directly employs 37,000 workers
- » Generates more than \$16 billion in wages and nearly 300,000 jo across the region
- » 4 runways
- » 4,930 acres

#### TRANSFORMING JFK INTO A MODERN 21<sup>ST</sup> CENTURY AIRPORT

John F. Kennedy International Airport (JFK) is one of the busiest airports in the nation and is an indispensable part of global travel and the region's economy. The airport handles nearly 62 million passengers a year, supports 280,000 jobs, and generates more than \$51 billion in sales and \$17.1 billion in wages. It is an essential component of the world's air transportation system and a regional economic driver.

#### THE NEW JFK

- » Unified terminal layout
- » World-class amenities
- » Redesigned on-airport traffic pattern
- » Centralized ground transportation options
- » Expanded taxiways and gate capacity
- » State-of-the-art security
- » First new airport facilities opened in 2022

#### JFK REDEVELOPMENT PROGRAM





 
 9,600
 \$19BIL

 Direct Jobs and
 INVESTMENT

 15,000+
 With 53.9 Billion in PA Capital Plan
 30% LC M/WBE GOALS JC Across All Program Fo

ENGAGEMENT OF IN LOCAL BUSINESSES IN JOB TRAINING AND CERTIFICATION REDEVELOPMENT IN AN ENVIRONMENTALL

IN AN ENVIRONMENTALLY RESPONSIBLE MANNER

Learn more about Job and Contract Opportunities

### What's Next?

- Professor Ward
- Learning from Others around me (All great leaders I work with I realized know how to manage the energy of their team and are emotionally intelligent)(Studying the greats)
- Always Having a ROOM FOR
   IMPROVEMENT MINDSET
- Continuing to grow and do things I love











### 95% OF VAUGHN GRADS

78% in their field—are employed or continue their education within one year\*





Welcome to the 35th Annual nen in Aviation International Conferen



## **CAREER SERVICES**

- Career Development 101 course□□
- Internship Preparation and Support
- Professional Development Workshops
- O Site Visits □ ■
- Employer Engagement Days
- Networking Opportunities □ □
- Career Fairs ♥ 🛣
- Dress for Success Fashion Show
- Support both students and alumni





\*swe

VaughnCollege

## **EMPLOYER PARTNERS**



# IT'S YOUR FUTURE.

ENGINEERING | TECHNOLOGY | MANAGEMENT | AVIATION

