



Aviation Science at Tuskegee University

The Campaign for **TUSKEGEE UNIVERSITY**
SOLVING THE WORLD'S MOST COMPLEX PROBLEMS

Breaking Barriers, Soaring Higher

DURING WORLD WAR II, WHEN THE ALLIES NEEDED SUPPORT, THE TUSKEGEE AIRMEN ANSWERED THE CALL. Those heroic, highly skilled pilots earned three Distinguished Unit Citations for their valor and integrated the American military.

Today, the aviation industry faces unprecedented personnel shortages—660,000 new pilots and 710,000 new maintenance technicians will be needed over the next 20 years, according to Boeing. So once again, Tuskegee University is writing a new chapter in aviation history.

In January 2025, an ambitious cohort of students enrolled in our new and historically inspired aviation science degree program. These students are tomorrow's pilots and aviation industry workforce. They will bring their expertise and training, honed at Tuskegee University, to the military and commercial air travel.

Our mission has just begun. Join us as we reach for the skies.

Here's How *You* Can Partner With *Us*



CAMPAIGN FUNDING PRIORITIES

As one of the few Historically Black Colleges and Universities (HBCU) with an aviation science degree program, Tuskegee University is uniquely equipped to prepare students for high-demand, high-paying careers in commercial and military aviation. Philanthropy can help the next generation of the aviation workforce earn their wings, bringing new energy and vitality to a profession where the sky is the limit.

Pillar 1: Academic Excellence and Workforce Preparation

Flight Training Endowment | Goal \$12.5 million

Training licensed pilots for today and tomorrow is rigorous—and expensive—combining intensive engineering and science coursework with more than 250 hours of flight training in simulators and aircraft. There are no shortcuts or workarounds, and the flight training comes at a high cost—over \$125,000 per student, above and beyond tuition and fees.

Gifts to the **flight training endowment** will enable more students from economically diverse backgrounds to pursue required aviation licensure by defraying what can be a prohibitive cost. Every gift will have a profound impact by reducing the financial hurdles and enabling students to soar higher. In addition, every \$1 million in gifts will create approximately 12 new commercial pilots, which will help solve the workforce shortage.

Pillar 2: Campus Re-envisioning and Revitalization

Dedicated Flight Training Facility | \$8 million

To reach the full potential of the Aviation Science Program, we envision a **dedicated flight training facility** that honors our past and invests in our future. The new facility will include a **spacious hangar with individual bays, office space, access to an aircraft maintenance and repair shop, and new technology** that is transforming the way pilots are trained.

Philanthropy can support:

- **Flight simulators** to improve safety, while providing important learning in a controlled environment
- **Virtual reality and artificial intelligence tools** to build confidence and help young pilots understand critical instrumentation, radar, and the mechanics of aircraft operation
- **Refurbishing an existing facility and building a new hangar** and ancillary offices, maintenance shop, and debriefing rooms

All of this provides valuable opportunities for research that can transform the aviation industry and help our university earn the prestigious Carnegie Foundation R2 designation that signifies a deep commitment to research spending and training of doctoral students.

The world *needs Aviation Science* at Tuskegee University

Pillar 3: Community

Supporting Faculty Excellence | Goal \$600,000

Training tomorrow's pilots requires a deep understanding of how student aviators successfully learn today, and that is an area where our Aviation Science faculty excel. They are deeply engaged in teaching and research to better understand human factors in aviation, as well as systems that improve the safety, accuracy, and reliability of pilots and aircraft.

Tuskegee University faculty are at the heart of the student experience and aviation community, and they require **support for professional development, research funding and presentations, and new course development**. Philanthropy will reward and advance faculty excellence, with the impact of every dollar multiplied by the work conducted with students and shared to improve industry standards.

Pillar 4: Sustainability

Essential Aircraft and Equipment | \$8 million

To expedite the launch of the new Aviation Science Program, Tuskegee University partnered with a professional flight training academy that provides training facilities and aircraft. While this relationship has been productive, to ensure the long-term sustainability of our program, we strive to acquire **our own fleet of aircraft**, including **12 single-engine and two twin-engine aircraft**, along with the **equipment and personnel to maintain everything** to the highest standards.

Most university aviation programs operate their own fleet, and we believe Tuskegee University students should have the same access and opportunities. Your support can make this possible.



MOTON FIELD IS A HISTORIC AIRFIELD IN TUSKEGEE, ALABAMA, AND THE BIRTHPLACE OF THE LEGENDARY TUSKEGEE AIRMEN, the first Black military aviators in U.S. history. The airfield is an eight-minute drive from the Tuskegee University campus. Today, it serves as the training ground for the next generation of aviators through Tuskegee University's Aviation Science Program.



TRAINING PILOTS THROUGH TRANSFORMATIVE PHILANTHROPY

Tuskegee University is proud of the role our institution played in training the Tuskegee Airmen to help the Allies prevail in WWII. With the recent launch of the Aviation Science degree program, a new generation of Tuskegee aviators and aviation support personnel will build on that legacy.

We invite you to consider how you can make an impact, while helping extend the Tuskegee Airmen legacy forward.

For more information on **The Campaign for Tuskegee University**, please contact:

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Honoring our Past...Investing in Our Future
#theTuskegeeWay

The world needs Tuskegee. Tuskegee needs you.

Help us solve the world's most complex problems by supporting **The Campaign for Tuskegee University**. Every gift will make an impact:

- Advancing knowledge, leadership, and service through teaching, research, and outreach programs
- Developing human resources and preparing students to be leaders in the global community
- Producing leaders ready to solve the world's most complex problems

Invest in a brighter world and a better future with Mother Tuskegee.



TUSKEGEE
UNIVERSITY