

Our Curriculum

Inspired by the legacy of the Tuskegee Airmen, our programs encourage students to pursue excellence through aviation, STEM, innovation, leadership, and service. We strive to equip every participant with the knowledge, confidence, and character to become future leaders in their communities and beyond.

The Tuskegee Airmen National Historical Museum provides hands-on aviation, aerospace, STEM, and leadership programming designed to inspire the next generation of pilots, engineers, innovators, and community leaders.

Aviation & Flight

Our Aviation & Flight programs provide students with an immersive introduction to the world of aviation. Whether students dream of becoming pilots or are simply curious about how aircraft operate, they gain hands-on experience while learning the science, technology, and discipline behind flight.

- Flight simulators
- Aircraft familiarization and pre-flight inspections
- Discovery Flights with certified pilots
- Ground School instruction
- Flight Academy
- Private Pilot Scholarship opportunities
- Aviation safety and FAA fundamentals
- Aerodynamics and the principles of flight
- Aviation terminology and communication
- Career pathways in aviation and aerospace

Students build confidence, develop decision-making skills, and gain exposure to the many careers available throughout the aviation industry.

Drone Technology

Students explore the rapidly growing world of Unmanned Aircraft Systems (UAS) through hands-on drone instruction, flight operations, and FAA safety education. Whether students are beginners or preparing for professional certification, our drone programs provide real-world skills that translate into today's workforce.

- Drone exploration and introductory flight experiences

- FAA Part 107 Remote Pilot Certification preparation
- TRUST (The Recreational UAS Safety Test) instruction and certification
- Flight planning and mission development
- Drone assembly, maintenance, and troubleshooting
- Drone coding and programming
- Safe flight operations and FAA regulations
- Aerial imaging and mission-based applications
- Career exploration within the commercial drone industry

Students develop technical knowledge, critical thinking, confidence, and an understanding of the rapidly expanding career opportunities available in drone technology.

STEM Innovation (Robotics & Engineering)

Our STEM Innovation program challenges students to think like engineers, inventors, and problem-solvers. Through project-based learning, students design, build, test, and improve their own creations while learning how innovation impacts the world around them.

- Design, build, and program robots
- Learn coding and computer programming fundamentals
- Explore engineering principles and the Engineering Design Process
- Develop critical thinking and problem-solving skills
- Collaborate on engineering design challenges
- Create prototypes using 3D printing technology
- Build mechanical and electronic systems
- Strengthen teamwork, communication, and leadership skills
- Apply creativity to solve real-world challenges

Every project encourages students to innovate, iterate, and discover how engineers transform ideas into reality.

Aerospace & Space Exploration

Students experience the excitement of aerospace through hands-on activities that introduce the science of flight and space exploration. From designing and launching rockets to understanding how aircraft fly, students gain a deeper appreciation for the engineering that powers aviation and aerospace.

- Rocket design, construction, and launches
- Principles of aerodynamics
- Aerospace engineering concepts
- Aircraft design and flight mechanics
- Forces of flight

- Scientific experimentation and testing
- Engineering challenges and problem solving

This program inspires curiosity while introducing students to the technologies and engineering principles shaping the future of aviation and aerospace.

STEM & Career Exploration

Our STEM & Career Exploration programs introduce students to exciting careers in aviation, aerospace, engineering, and emerging technologies. Through interactive experiences, guest speakers, industry partnerships, and career-focused activities, students gain insight into educational pathways and future workforce opportunities.

- Aviation & STEM Career Days
- Detroit A.C.E. Academy
- Air Traffic Control exploration
- Aircraft Maintenance
- Aviation operations and airport careers
- College and workforce readiness
- Professional development workshops
- Industry guest speakers and mentors
- Resume, interview, and career preparation
- Postsecondary education and scholarship awareness

Our goal is to inspire students to see themselves in STEM careers while equipping them with the knowledge, confidence, and resources needed to pursue higher education and meaningful careers.

Leadership Development

Every program incorporates opportunities to develop:

- Leadership
- Teamwork
- Communication
- Professionalism
- Critical Thinking
- Character Development

Who We Serve

We proudly partner with:

- Public Schools
- Charter Schools

- Private Schools
- Homeschool Organizations
- Youth Organizations
- Summer Camps
- Community Organizations

Programs are available as:

- Field Trips
- In-School Programs
- After-School Programs
- Summer Camps
- Aviation Career Days
- STEM Workshops