



NASA Aeronautics

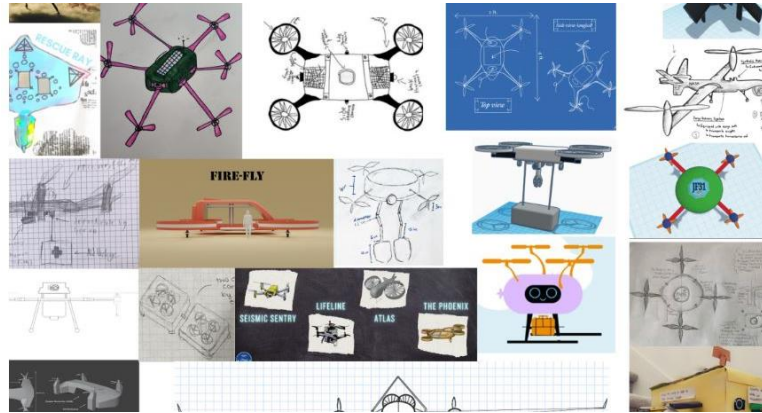
Monthly STEM Newsletter

INSIDE

Celebrate Pride Month & Juneteenth National Independence Day

Announcement of the 2024 Dream with Us winning teams!

NEW Team II Grant, NCAS, and more!



Some of the images from student projects submitted in the 2024 Dream with Us design challenge. Students in grades 6-12 were tasked with creating solutions for response to natural disasters using new aviation such as drones and air taxis.

CREDIT: NASA Aeronautics STEM Team and participant art

June 2024

Summer is here, Aeronauts and there is lots going on! Time to enjoy some outdoor fun--It's the perfect time to build paper airplanes and have a distance contest--Build a Tetrahedral kite that will soar. This month NASA honors Pride Month, celebrating the LGBTQ+A community. Speaking of celebrations, don't forget Juneteenth! Meet our aero crew highlight, Michael Jorgensen, the Public Affairs Specialist for the Electrified Powertrain Flight Demonstrator project. Read on to learn about a NEW grant opportunity, NEW internship projects, and deadlines coming up this month. Don't miss the announcement of the 2024 Dream with Us design challenge winning teams! Want to stay up to date with new flights and opportunities? Sign up with Flight Log today so you don't miss the chance to fly and continue to engage with NASA Aeronautics.

Do you need to see more of something or have a new idea for upcoming newsletters? Let us know! Do you know someone else who needs this monthly update? Share the good news and [sign up for our monthly STEM newsletter](#). Have questions or want to be removed from the list? Send an email to april.a.lanotte@nasa.gov or holly.o.gutierrez@nasa.gov.

Pride Month

June

Pride month is celebrated every June to celebrate the inclusion of our LGBTQ+ community, making NASA and the United States a better place. We strive to be a place where all people feel safe, supported, and able to be their full selves.

In June 1969 the first Pride March took place in New York City celebrating a community of resilience, talent, creativity, and goodwill towards all. First started to commemorate the Stonewall Uprising in New York City in 1969, the Stonewall Inn was an establishment that supported the LGBT community. On June 28, 1969, activists resisted persecution, ally protesters from all over the city to come and stand in support of the LGBT community. During this time it was illegal to wear more than three articles of clothing that did not match a person's assigned gender at birth. Individuals of the LGBT community were targeted and arrested for violating this law. This event is considered a turning point for the expansion of civil rights to include the LGBTQ community.

Today, the Stonewall Inn is recognized as a National Historic Landmark by the National Park Service.

NASA celebrates the diversity and equity of all and to everyone being their true selves. [Watch this video](#) and take a look at some of our other [images and stories](#) to take a look at how our NASA family encourages everyone to be their authentic selves.



Juneteenth National Independence Day

June 19, 1865

Juneteenth National Independence Day is remembrance for June 19, 1865, when enslaved people in Galveston,

Aeronautics Crew Highlight

Michael Jorgensen, *Public Affairs Specialist for the Electrified Powertrain Flight Demonstrator project*



Michael Jorgensen is a public affairs specialist who loves traveling in his MINI Cooper. Read on to learn about Michael, his work on Broadway, and how he came to NASA.

“I am the Public Affairs Specialist for the Electrified Powertrain Flight Demonstrator (EPFD) project. I hold a Master of the Arts degree in Classical and Contemporary Text (Acting) from the Royal Scottish Academy in Music and Drama.

I have called a few places home, some outside of this country! I was born in Denmark but grew up outside of Chicago. I earned my undergraduate degree in Boston, my master's in Scotland, and I have been living in New York City for over 13 years.

Before coming to NASA, I worked for a theater public relations (PR) agency for over a decade as a publicist for Broadway shows and cultural institutions. Some of the shows I supported were *Ain't Too Proud - The Life and Times of The Temptations*, the Jimmy Buffett musical *Escape to Margaritaville*, *Betrayal* starring Tom Hiddleston, and *SPIDER-MAN Turn Off the Dark*. The pandemic shuttered the theater industry for over two years. I was fortunate enough to start my own theater PR firm during that time, working with clients such as Deaf West Theatre, *Stranger Sings - the Stranger Things* parody musical, off-Broadway shows, and more.

Though I had my own PR work keeping me busy, I still applied to communications jobs at over 200 different companies, including almost 20 different positions at NASA. One day, NASA asked me to

Texas finally learned of their freedom from slavery. Abraham Lincoln signed the Emancipation Proclamation into law on January 1, 1863 but the news of freedom did not reach Texas for more than 2 years. It took military intervention for the slaveholders in the westernmost Confederate state to release enslaved Black Americans. With their new-found freedom, former enslaved peoples sought to find their families, build schools, and establish a community.

On June 17, 2021, President Joe Biden signed law that makes June 19th a National Holiday. On this day, we celebrate the freedom of all people and honor those that have made sacrifices fighting for that freedom and those that continue to do so. Since then NASA has been proud to celebrate Juneteenth through flag raising ceremonies, hosting a "Jubilee Jam," premiering "The Color of Space" movie, and more. How will you celebrate?

Student and Internship Opportunities

Closing Soon–Mission 1 Application Deadline June 10th! NASA Community College Aerospace Scholars (NCAS)

NASA Community College Aerospace Scholars (NCAS) has three missions designed

to challenge and build student's knowledge and skills. **Mission 1: Discover**
registration is open
through June 10, 2024!

Students collaborate to work on real NASA missions and goals. Mission 1:

Discover takes students through a 5-week, self-paced online course where they gain broad knowledge of NASA's mission directorates and discover NASA career paths. Students can expect to hear from subject matter experts and learn about NASA's missions dedicated to space exploration, technology, and aeronautics research. Engineering design challenges are hosted at a partner institution or a NASA field center. NCAS alumni are also eligible for NASA internship opportunities.



For more information, eligibility, and the application process join an information session or visit the [NCAS website](#).

interview. Of course I said "YES!" Now, I'm excited to say that I have worked with the Agency on the EPFD project for over 2 years while continuing with my own theater PR business on the side.

I like connecting people and bridging the gap between the old guard and the new. It can be hard for different generations to communicate, but with some helpful tools it can be easier. I'm very excited to be communicating science in ways that everyone from Boise to Boston can understand! One of my favorite things about NASA is attending AirVenture at Oshkosh every year. To me, it is like summer camp. I not only love everything aviation, but I got to visit Oshkosh several times with my family growing up. It's a full circle moment for me every time bringing back those fond memories of the noises, planes, smells, and the pure excitement of the event from when I was a kid.

Not only do I love everything aviation, but I also enjoy board games. I'm a huge fan of Wingspan. I love going to National Parks and getting stamps in my NPS book, trips in planes, trains, and automobiles, soccer, theater (duh!), and more! Fun fact: I am 6'3", and I drive a MINI Cooper. It's over 20 years old, but it has been my wheels for many a road trip, including most recently to Niagara Falls with my partner Lucas. As a kid, NASA was just a dream, but now I know, dreams can come true. "



Do you want to know more about these two pictures of Michael in front of NASA aircraft? Read more about them [here](#).

NEW Projects Available! NASA Internships

To keep up with other organizations and industry who select interns early, NASA has shifted our intern application periods, so it's important to keep up with earlier application



deadlines for all of our Spring, Summer, and Fall internships. Did you miss the summer and fall 2024 NASA internships? NEW projects have already been added for Spring 2025! Encourage students to apply for a NASA internship today to get their names in early. Some opportunities start at 16 years old. Learn more [HERE](#) about available STEM and non-STEM projects at various NASA centers that offer in-person, virtual, and hybrid opportunities. Whatever students are interested in studying, NASA has a place for them! Applications for Spring 2025 are due by **August 23rd, 2024**.

Design Challenges and Grant Proposals

The next round is OPEN and the deadline is approaching on June 20th for the University Student Research Challenge



Join the [NASA University Student Research Challenge](#) family and collaborate with peers to contribute to the evolving field of aeronautics! NASA is seeking creative ideas and concepts relevant to NASA Aeronautics from interdisciplinary student teams.

- Receive up to \$80,000 to pursue your ideas
- Gain technical and entrepreneurial experience
- Open to all majors and interdisciplinary teams (engineering, business, etc.)
- Interface with NASA experts and receive exposure to the aerospace industry

Professional Development

Come See Us in Person!

ISTE

[International Society for Technology in Education](#)

Denver, CO on June 23-26, 2024: Meet the NASA Aeronautics STEM team at the ISTE conference where we will present, **NASA Aeronautics: Engaging Creativity and the Future in a Technology-Driven World** on Sunday June 23, 2:30-3:30.

Flight Opportunity! Flight Log

Sign up today to get updates on flights coming soon. Earn an endorsement code for your flight log when you complete activities and join NASA Aeronautics STEM engagements online and in-person. We have new flights and opportunities



being added to [Flight Log](#) all the time. Add your email to our [contact list](#) to stay up to date on upcoming flights and other opportunities. It's a great time to fly with us!

NASA CONNECTS: Are you interested in other professional development opportunities? Create a new account or log into NASA's STEM Gateway to find a session that interests you.

Did you know?

June is National Safety Month. NASA understands the importance of safety when it comes to new aviation, such as drones and air taxis. It's important to maintain safe air space for other aircraft and life on the ground. Learn safety etiquette when using drones and other small UAVs (uncrewed aerial vehicle) with this [Drone Safety Poster activity](#).

Coming Soon! New TEAM II grant funding category

Next Gen STEM's Teams Engaging Affiliated Museums and Informal Institutions ([TEAM II](#)) program is pleased to announce an upcoming FY2024 Notice of Funding Opportunity (NOFO) that will expand the current program from a two-tier to a three-tier system by adding a mid-level funding tier. The NOFO is expected to be released in the third quarter of FY2024 (April-June). The new mid-level funding tier was created in response to feedback from the informal education community.

The new "STEM Innovator" tier will fund awards of approximately \$250,000. In addition, the highest tier award will be designated the "National Connector" award and fund initiatives up to \$900,000. The "Community Anchor" tier will continue to offer awards up to \$50,000. The Community Anchor tier opportunity will be offered each fiscal year, and the STEM Innovator and National Connector tiers will be offered in alternating years. The FY2024 NOFO will include the Community Anchor and STEM Innovator tiers and the FY2025 NOFO will focus on the Community Anchor and National Connector tiers. By adding the mid-level tier, NASA and Next Gen STEM aim to broaden the number and type of awards made to Informal Education Institutions for creating innovative, NASA-inspired programming for K-12 students and their families.

go.nasa.gov/team-ii

Dream with Us Design Challenge Winners Announced!!



Congratulations to all the participants for a job well done in the 2024 Dream with Us Design Challenge! Thank you for joining us at the Dream with Us Recognition Ceremony. We had a special appearance from subject matter expert Spencer Monheim of (ACERO - ARC) to tell

June 5th is World Environment Day! We are stewards of this planet and must work to preserve and take care of it. Committed to greener aviation, the X-66 is a great example of how NASA Aeronautics is making strides toward sustainability. Check out [the NEW Jr. Pilot Program: Sustainable Aviation](#) for K-5 to learn more about the X-66.

June 9th is National Kids Day and what do kids like to do, PLAY! Try some of these aeronautics activities to have fun playing with STEM. Build [paper planes](#) and have a flying contest, [build your own kite](#) and fly it outside, or try some [aviation-themed puzzles](#).

June 16th is Father's Day. Let's celebrate dads for all they do! Show your dad your modeling skills by building this [X-59 desktop model](#). Or maybe you and dad can build it together. Have fun celebrating with your dad on this day and every day.

June 17 - 23 is National Week of Making which focuses on innovations in STEM. Join the Week of Making by making your own 3D models using these featured by NASA Aeronautics 3D files. Don't have a 3D printer, try making the X-59 Paper Snowflake.

- [X-59 3D File](#)
- [X-59 3D, Paper, and Other Snowflake Files](#)
- [X-66 3D File](#)

June 23rd is International Women in Engineering Day. Celebrate women changing the field of engineering, breaking barriers, and paving the way for the next generation of women. Try the [Wingin' It Paper Airplane Activity](#) to learn more about what it takes to be an engineer at NASA designing the next generation of sustainable aircraft. As student engineers, explore different designs of paper airplanes testing their impacts on weight, balance, and flight distance. Watch [the video](#) for more details on how to get started.

us more about the work of the ACERO Project and John Cavolowsky of the Transformative (AC) Program who stopped by to congratulate the winners and pass along some great words of wisdom. See the winning teams below and head to the [Dream with Us webpage](#) to see their dream designs and watch the Recognition Ceremony on demand.

Middle School

1st Place: The Unstoppable Changemakers

2nd Place: Aerial Disaster Response Association

3rd Place: J.A.N.S

High School

1st Place: PushPak

2nd Place: AirRescue

3rd Place: Flight Fusion

Join us next spring for the 2025 Dream with Us design Challenge! *Happy Flying!*

Links to our Aeronautics STEM Resources:

[Aeronautics Research Resources](#): (all ages) This link takes you to a wide variety of educator resources, Aeronautics@Home, ebooks, National Academies Reports, webinars, lithographs and mini posters, the NASA Aeronautics Research Institute, and more.

[Aeronautics@Home](#): (K-12) This web page contains aeronautics-based activities, videos, games, and more that can be completed at home, in the classroom, or in any number of settings. Topic areas include: "Build It!" "Explore It!" "Watch It!" "Solve It!" "Color It!" and "Aero Educator Resources". Coming soon: "Read It!" and "Do It!"

[Aeronautics Innovations Challenges](#): Keeping up with our many design challenges and opportunities for both post-secondary and K-12 can be tough. In response, we created a "one-stop shop" to pull them all together in one location.

[Flight Log Experience](#): (K-12, post-secondary, general public) Sign up to send your name with NASA Aeronautics on X-planes, UAS flights, and more as you build your virtual NASA flight log. Earn virtual endorsement stamps and mission patches and access aeronautics STEM activities and resources. Educators can sign up their entire class.

[NASA Express Sign-Up](#): (K-12, post-secondary) Have you signed up for NASA's NASA EXPRESS weekly newsletter? This newsletter contains the latest information for educators (K-12 and post-secondary) about new resources, design challenges, internships, and workshops. It is THE go-to for the latest STEM news.

[Aeronaut-X](#): (K-12) Our Next Gen STEM: Aeronaut-X team provides new and exciting STEM activities that focus on cutting-edge aeronautics education and the future of flight.

[Museum and Informal Education Alliance](#): (Informal Educators and Museums) Not in a classroom? Looking for informal education materials? Join NASA's Museum and Informal Education Alliance, where you have access to NASA resources—including aeronautics—for your program, organization, museum, science center, or library. Find out about events happening near you and in the virtual world, and let the MIE Alliance help you build your programs! Access to guest speakers, the latest announcements about grant programs, and an active community network allow you to connect with other like-minded people in a supportive, engaging, and aerospace-focused neighborhood.

[NASA Aeronautics for Educators Facebook Page](#): (K-12, post-secondary) Join our NASA Aeronautics for Educators Facebook page, where the latest aeronautics updates, professional development opportunities, lessons and ideas are freely shared.

[NASA Connects](#): (K-12, post-secondary) NASA Connects is a network of educators who come together to collaborate, share NASA resources, and create personal collections of materials that can then be shared with others. Members can join groups tailored to their specific interests.

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