



NASA Aeronautics

Monthly STEM Newsletter

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Open



Orville D. Squirrel joins NASA's Super Guppy aircraft at the annual AirVenture event in OshKosh, WI in July. Over 657,000 aviation enthusiasts from around the world came to experience aircraft, workshops, STEM opportunities, and interact with NASA in our pavilion at the event. Credit: NASA.

September 2023

The 2023-2024 academic year is already in full swing and many of you are no doubt back in the classroom or working with those who are. NASA and many other organizations have lots of STEM opportunities planned. Be on the lookout for Girls in Aviation Day events in your community (NASA will have a presence at multiple events), September kicks off Hispanic Heritage Month and we'll be highlighting many of our Hispanic NASA folks as well as our resources—STEM and otherwise—in Spanish on our social media channels and website, and more. Be sure to take a look at two grant and design challenge opportunities also listed here.

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? [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.

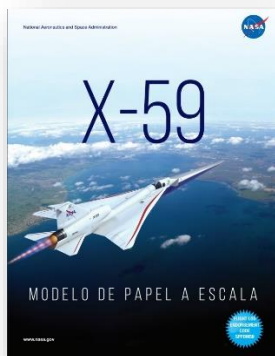
Let's Fly!

National Hispanic Heritage Month

In honor of National Hispanic Heritage Month, which is celebrated here in the US from Sept 15-Oct 15 each year, NASA is taking the time to recognize the work that many of our NASA employees and partners have contributed to aerospace, particularly in the fields of aeronautics and aviation. Stay tuned to our social media channels and our website for lots of great content! In the meantime, focus on these resources:

Aeronáutica en español

This [web page](#) contains NASA Aeronautics materials in Spanish. Links to articles, social media posts, and STEM materials can be found here, completely in Spanish! Here is a sample of some of the STEM materials available:



[Modelo de Papel a Escala: X-59](#): Build a paper model of the X-59 with all instructions and background information in Spanish. An [English version](#) is also available.

[NASA's Hispanic Heritage Month web page](#): Find inspiration here for yourself and your students, with stories about just a few of our NASA team of Hispanic heritage who contribute to our work every day.

Fly with Advanced Air Mobility and build your [flight log!](#)

Professional Development:

Virtual Opportunities:

Coming Soon: Celebrate the X-59 Roll-Out and host or participate in a Virtual Watch Party! Stay tuned for more information to come, but as the X-59 gets closer to its grand unveiling, we're working to put together plans to help you host a virtual watch party. More soon!

[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.

Come See Us in Person!

[Energy and Mobility Technology Conference and Expo: September 12-15, 2023. Cleveland, OH.](#) Free public opportunities during the conference.

[Johnson Space Center Open House: Saturday Oct. 14th, 2023](#) Johnson Space Center will open their gates to help celebrate NASA's 65th anniversary and you're all invited! Take a look at the link above to find out how to join in on the fun.

[NASA Langley Research Center Open House: Saturday October 21st, 2023](#): Join NASA's Langley Research Center for a chance to look at our state-of-the-art technologies, labs, and facilities that help us get to the moon, advance the latest aeronautics research, and help us understand more about our own planet.

Grant Proposals and Design Challenges

Deadline Quickly Approaching: [2023 Teams Engaging Affiliated Museums and Informal Institutions \(TEAMIIFULL\)](#):

Sept. 12, 2023 deadline for NOFO NNH23ZHA001N for proposals led by informal education institutions to provide inquiry or experiential-based educational opportunities for students and the public that align with and support major NASA missions.



Have you signed yourself or your students up for the NASA Aeronautics virtual flight log? [Sign up now](#) for our latest flight opportunity on our PC-12 that will be flying soon, with more flight opportunities coming throughout the fall.

Add your email to our [contact list](#) to stay up to date on upcoming flights and other opportunities. update is now live, allowing for more interaction, additional STEM content, and new opportunities to engage with us. For new and returning participants alike, you can now sign up to receive email updates, so take a look at our new content. We have multiple flights that will be coming up in 2023 so it's a great time to fly with us!



[2024 Gateways to Blue Skies Challenge Now Open!!](#)

As climate change increases the frequency and intensity of many natural disasters, NASA Aeronautics asks collegiate teams to **conceptualize aviation-related system(s) that can be onboarded to improve aerial disaster management efforts immediately and into the next ~10 years.**

GATEWAYS TO BLUESKIES
Inspire. Innovate. Impact.

2024 Theme: Advancing Aviation for Natural Disasters
<https://blueskies.nianet.org>

Based on a review of proposal and video submissions, up to 8 finalist teams will be selected to receive an **\$8,000 stipend** to develop a final technical paper, an infographic, and to present at the 2024 Gateways to Blue Skies Competition Forum at NASA's Ames Research Center in Mountain View, CA, May 30-31, 2024.

But wait...there's more! As the competition prize, **NASA is offering 6 internship opportunities within its Aeronautics Research Mission Directorate!**

Submit a non-binding Notice of Intent (NOI) by October 16, 2023 to let us know you're interested in participating in this year's Blue Skies Competition - and get regular communication updates from the Blue Skies Team!



The [newest solicitation window](#) is now open! 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

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- Open to all majors and interdisciplinary teams (engineering, business, etc.)
 - Interface with NASA experts and receive exposure to the aerospace industry

Proposals for the next round are due *November 9, 2023*.

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.