

NASA Aeronautics Monthly STEM Newsletter

April 2021

With spring in the air, it's only natural to look to the skies and think about flight. NASA Aeronautics is busy doing the same, and we have lots of existing and new content to help you get students of all ages designing, building, and flying! In this month's aeronautics STEM update, take a look at the many ways to get students—and you—engaged. Do you know someone else who needs this update, too? Feel free to share, and to send them my way to get added to the list: April.a.lanotte@nasa.gov.

Mars Ingenuity helicopter readies to make the first powered flight on another planet this month! Follow along with JPL and NASA as we prepare for the Wright Brothers-type of flight. Want to get students excited? Here is a link to our **NASA Aeronautics on Mars (and Earth) materials**—videos, articles, STEM activities, and more being added daily! <https://www.nasa.gov/aeroresearch/nasa-aeronautics-on-mars-and-earth/>

ARMD Solicitations: Newly announced opportunities for universities to collaborate with NASA's aeronautical innovators and/or contribute to their research is available now!
<https://www.nasa.gov/aeroresearch/solicitations>

Newest STEM activities: Take a look at the new STEM activities we've added to our [Aeronautics@Home](#) page. In addition to our existing resources, now you can [Make Your Own X-59](#), [Code Your Mars Perseverance Parachute Message](#), and coming soon, our newest leveled reader about Acoustics Engineer Danielle Koch.



Do you know about [Aeronaut-X](#)? Take a look at our Next Gen STEM: Aeronaut-X program to find lessons, activities, and support materials to help bring students into the future of flight. Fun activities such as the [X-Plane Glider Design Challenge](#) with accompanying support videos are a part of this great resource.

Upcoming Educator Professional Development events: Take a look at just some of the [Upcoming Educator Professional Development events](#) for the month of April. These sessions are free, and some are available en espanol as well! Our "[Aeronaut-X: Explore how we hear, feel and see the sound in Aeronaut-X with the activity Senses of Sound](#)" session will occur on April 12th from 6-7pm EST, and registration is free.

NASA STEM Stars: Each month, [NASA STEM Stars](#) hosts webchats that connect students ages 13+ with NASA experts of all types. Episodes are live-streamed on YouTube and occur at 2pm EST April's lineup will include:

- April 7th: Andrew Lind, Langley Research Center, Revolutionary Vertical Lift Technology Project
- April 21st: David Zahn, Ames Research Center, Advanced Air Mobility Mission
- April 28th: Nicole Pettingill (en espanol!), Langley Research Center, Revolutionary Vertical Lift Technology Project

Stay Tuned: Coming May 12th!!

- **Advanced Air Mobility Career Day:** The Future is Flying Cars (Virtual Event): Aimed at educators, high school, and post-secondary students, this virtual career day from 12:25-2:30pm EST will

highlight NASA's Advanced Air Mobility (AAM) mission and the wide variety of careers associated with AAM. Hear from NASA engineers, pilots, technicians, attorneys, project managers and more. In the meantime, email [Jamie Turner](mailto:jamie.m.turner@nasa.gov) to be on mailing list for event info: jamie.m.turner@nasa.gov

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!"
- [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.
- [NASA Educator Professional Development Collaborative](#): (K-12 educators) Where do you go for ongoing, free NASA educator professional development opportunities? To EPDC! Take a look at webinars, digital badging and CEU opportunities, STEM teaching tips, videos, and so much more.
- [Aeronaut-X](#): (K-12) Our Next Gen STEM: Aeronaut-X program 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 STEM Stars](#): (students ages 13+) Webchats that connect students ages 13+ with NASA experts of all types. Each chat introduces a STEM career, addresses a STEM topic, and highlights a NASA mission. Webchats are streamed live at 2pm EST via YouTube, and students can ask questions via the chat feature in real time. Or, you can choose from a growing library of archived sessions.