



NASA Aeronautics

July 2021
No. 4

Monthly STEM Newsletter

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July 2021

Happy Summer! With summer programs in full swing (or at least as full-swing as possible in our current environment!) and thoughts of the 2021-2022 academic year in our heads, this month's aeronautics STEM update takes a look at the many ways to engage with NASA Aeronautics, a look at summer interns and the work they're doing, and a peek at some exciting things to come. Do you know someone else who needs this monthly update? [Sign Up for the Monthly STEM Newsletter](#). Do you have a question or want to be removed from the list? Send me an email: April.a.lanotte@nasa.gov.

New Videos and Resources:

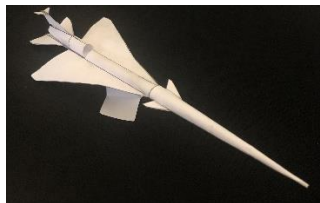
"[The Quiet Crew: Episode 2](#)". Last month you were introduced to our new video series that highlights some of the many people working behind the scenes on the X-59 and our quiet supersonics mission, created by some amazing interns and others on our NASA Aeronautics team. Episode 2 is now available as of July 1st! If you missed the first in our series, take a look at Episode 1, featuring Deputy Propulsion Lead Paul Dees: [NASA's The Quiet Crew: Episode 1](#).

Aeronautics Interns:

STEM Engagement Intern: Zachary Gwennap



The Aeronautics Research Mission Directorate STEM Engagement team welcomes Zachary Gwennap as our summer intern. Zac is studying Aerospace Engineering at Moorpark College in CA. In his free time he likes working on electronics and rock climbing. He is working with us to create STEM materials for our X-59, including a buildable paper model, 3D print files of the X-59 in multiple sizes, and a 3D print file and instructions for a printable hobby kit of the X-59. Here is a sneak peak of the paper model in development; stay tuned for the final products!



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. June concluded our series that focused on Advanced Air Mobility. Take a look at the archived series and others!

STEM Engagement Materials in Spanish

NASA Aeronautics constantly strives to broaden participation in STEM. We are excited to share some of our newest materials that are now available in Spanish, with more to come. Our [X-57 mini-poster](#) is now available in English and in Spanish, along with many others. In addition, take a look at the [Aeronaut-X Educator Guides](#) that are also available in Spanish.

Coming Soon!

Stay tuned for new lessons and activities coming this month, including a light-up paper helicopter and the first of our Jr. Pilot Badge program series.



Aeronautics Multimedia Specialist Intern: Tiernan Doyle



Tiernan Doyle is a multimedia intern working with the Low Boom Flight Demonstration mission's communications team at NASA's Langley Research Center in Virginia. Specifically, he works on "The Quiet Crew" video series. He recently graduated from William Paterson University with a double major in broadcast journalism and public relations. Along with his lifelong passion for aviation, he is also interested in independent and local music.

Professional Development:

[Educator Professional Development Collaborative](#)

(EPDC): Aeronautics, Engineering Design, Digital Badges and more! Join NASA's EPDC for a month full of opportunities to participate in a variety of aeronautics-related professional development. This includes several opportunities to find out about digital badges for educators and students, "Explore Aeronaut-X: How we hear, feel, and see sound in aeronautics" on July 6th from 4:30-5:30pm EST. **Take a look at the second in our multi-part series about the X-57 Maxwell:**

[Aeronaut-X: Electricity, Circuits, and the X-57 Maxwell](#) on July 15th from 6-7pm EST, where you will one of the first to see and try our newest light-up paper helicopter activity! Sessions are free but registration is required.

Funding Opportunities:

[TEAM II Funding Opportunity](#): NASA's Office of STEM Engagement invites proposals from museums, science centers, planetariums, and other eligible nonprofit institutions to apply for a TEAM II grant. Full proposal is due July 19th.

[ARMD Solicitations](#): Opportunities for universities to collaborate with NASA's aeronautical innovators and/or contribute to their research are available now! Several solicitations are currently active:

<https://www.nasa.gov/aeroresearch/solicitations>

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.