

## HughesNet® and 4-H Introduce STEM Lab to Inspire Next Generation of Science and Tech Leaders

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**New online resource provides free access to fun, hands-on STEM activities for kids.**

GERMANTOWN, Md., May 22, 2018 /PRNewswire/ -- [HughesNet](#) and National 4-H Council announce the launch of [STEM Lab](#) to inspire the next generation of scientists. A free resource to parents and teachers, STEM Lab is an online hub offering fun, hands-on STEM activities developed by top public universities and 4-H groups to spark kids' interest in science, technology, engineering and mathematics (STEM).



"Hughes and 4-H share a passion for increasing students' access to STEM activities no matter where they live," said Peter Gulla, senior vice president of marketing, Hughes Network Systems. "Through the activities we support with 4-H, like STEM at Summer Camp and National Youth Science Day, we've seen the powerful impact of the curriculums and programs created by 4-H and their university partners. With STEM Lab, we're excited to bring those world-class resources together in a learning hub that's accessible to kids everywhere."

STEM Lab features easy, hands-on STEM activities organized by age group for youth ages 4 to 16. Projects include easy-to-follow instructions and how long the project will take, an explanation of the foundational concepts at work, discussion questions and a list of necessary supplies – which most often consist of basic household items. There's even a project Messy Meter, ranging from "clean" to "mega mess," which helps activity leaders plan for their budding scientists' activity.

At launch, the website features some of the most engaging activities from 4-H's land grant universities and other educational partners across the country. An exercise in mechanical engineering by the University of California and the University of Nebraska encourages kids to create a simple robot that draws on paper. Younger students can play chemist by creating "Fizzy Foam" in a project presented by Ohio State University, or build a basic wind turbine with little more than paper cups, construction paper, paper clips and rubber bands. With HughesNet's support, 4-H will continue growing STEM Lab with exciting new activities and projects.

"Our aim is to ensure that all children, no matter where they live, have access to hands-on, experiential STEM learning," said Gulla. "It is a part of our company's larger commitment to bridging the technology divide. Kids who tap into their curiosity and enthusiasm for STEM now will grow into the leaders of tomorrow – ensuring our country stays competitive in the global economy and powering our connected future."

Data from the U.S. Bureau of Labor Statistics (BLS) shows that occupations related to STEM are projected to grow 13 percent between 2012 and 2022, faster than the 11 percent projected for all occupations over the same period.\*

"As the nation's largest youth development organization, 4-H prepares youth for the future, which includes opening doors to exciting potential careers in STEM fields," said Jennifer Sirangelo, president and CEO, National 4-H Council. "We know that 4-H youth, compared to their peers, are two times more likely to pursue STEM careers which is why we are excited to have HughesNet's support launching the new 4-H STEM Lab, where parents can share the excitement of STEM learning with their families."

HughesNet has worked with the National 4-H Council since 2014 to broaden access to STEM education in an increasingly technology-dependent world. In addition to the launch of STEM Lab, Hughes supports 4-H National Youth Science Day and the 4-H Youth in Action STEM pillar award.

To learn more about STEM Lab and to dive into STEM activities, visit [4-H.org/STEMLab](http://4-H.org/STEMLab).

### **ABOUT HUGHES NETWORK SYSTEMS**

Hughes Network Systems, LLC (HUGHES) is the global leader in broadband satellite technology and services for home and office. Its flagship high-speed satellite Internet service is HughesNet®, the world's largest satellite network with over 1.2 million residential and business customers across the Americas. For large enterprises and governments, the company's HughesON® managed network services provide complete connectivity solutions employing an optimized mix of satellite and terrestrial technologies. The JUPITER™ System is the world's most widely deployed High-Throughput Satellite (HTS) platform, operating on more than 20 satellites by leading service providers, delivering a wide range of broadband enterprise, mobility and cellular backhaul applications. To date, Hughes has shipped more than 7 million terminals to customers in over 100 countries,

representing approximately 50 percent market share, and its technology is powering broadband services to aircraft around the world.

Headquartered outside Washington, D.C., in Germantown, Maryland, USA, Hughes operates sales and support offices worldwide, and is a wholly owned subsidiary of EchoStar Corporation (NASDAQ: SATS), a premier global provider of satellite operations. For additional information about Hughes, please visit [www.hughes.com](http://www.hughes.com) and follow @HughesConnects on Twitter.

#### ABOUT 4-H

4-H, the nation's largest youth development organization, grows confident young people who are empowered for life today and prepared for career tomorrow. 4-H programs empower nearly six million young people across the U.S. through experiences that develop critical life skills. 4-H is the youth development program of our nation's Cooperative Extension System and USDA, and serves every county and parish in the U.S. through a network of 110 public universities and more than 3,000 local Extension offices. Globally, 4-H collaborates with independent programs to empower one million youth in 50 countries. The research-backed 4-H experience grows young people who are four times more likely to contribute to their communities; two times more likely to make healthier choices; two times more likely to be civically active; and two times more likely to participate in STEM programs.

Learn more about 4-H at [www.4-H.org](http://www.4-H.org), find us on Facebook at [www.facebook.com/4-H](http://www.facebook.com/4-H) and on Twitter at <https://twitter.com/4H>.

\* US Bureau of Labor & Statistics, [STEM 101: Intro to Tomorrow's Jobs](#)

The screenshot shows a webpage for a 4-H STEM Lab activity. At the top, there is a navigation bar with a 4-H logo and links for 'About 4-H', 'Parents', 'Adopt', '4-H Professionals', and 'Get Involved'. Below the navigation is a large image of a person in a yellow lab coat performing a chemistry experiment, with the text 'FIZZY FOAM FUN' overlaid. Underneath the image are links for 'THE EXPERIMENT', 'ACTIVITY DOWNLOADS', and 'PURCHASE STEM CURRICULUM'. The main content area is titled 'About the Experiment' and includes a description of the activity, a '4-H STEM LAB' logo, and a 'HughesNet' logo. Below this is a 'What You'll Need' section with two columns: 'Pantry Supplies' and 'Specialty Supplies'. To the right of these lists is an image of the experiment setup. At the bottom, there is a 'What to Do' section with a numbered list of steps and a 'Bonus Fun!' section with a small diagram and text.

# HughesNet®

# 4-H STEM LAB



[next-generation-of-science-and-tech-leaders-300652527.html](http://next-generation-of-science-and-tech-leaders-300652527.html)

SOURCE Hughes Network Systems, LLC

Susan Goodell, Vice President MWWPR, 312-981-8545, sgoodell@mww.com