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But since 2008, NASA and Boeing have been researching a fascinating wing design that's more suited for smaller commercial planes, like 737s or A320s, which seat a maximum of about 220 or 240...

[NASA's weird wing design could lead to futuristic, fuel ...](#)

New way of fabricating aircraft wings could enable radical new designs, such as this concept, which could be more efficient for some applications. Credit: Eli Gershenfeld, NASA Ames Research Center...

[MIT and NASA engineers demonstrate a new kind of airplane wing](#)

Popular Science reporter Rob Verger writes that MIT and NASA researchers have developed a new design for a plane wing that can change shape mid-flight. As the plane wing is assembled from hundreds of different parts, it could be programmed in a specific way to control the response that it has to an aerodynamic load, explains graduate student Benjamin Jenett.

[MIT and NASA engineers demonstrate a new kind of airplane wing](#)

The Shape of This Machine May Move Fusion Forward NASA and MIT's Transforming Wing Could Change How Planes Are Built Composed of hundreds of small, identical pieces, the shape-shifting wing

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can...

~~NASA and MIT Make a Transforming Wing Design~~

A radically designed "flying wing" remotely piloted aircraft at NASA's Armstrong Flight Research Center in California, inspired by birds in flight, is getting ready for a new round of testing that...

~~Birds inspire radical new NASA wing design—Cosmos Magazine~~

NASA and MIT Unveil Radical New Wing Design 0:00. A team of engineers from NASA and MIT has completely redesigned the aircraft wing. The wing is assembled from hundreds of identical small pieces and it can adjust its shape to control the aircraft's flight. The invention has the potential to revolutionize aircraft design and production, maintenance, and flight efficiency.

~~NASA and MIT Unveil Radical New Wing Design—Engineering~~

For almost a hundred years most planes have looked like a tube with wings, but that may change thanks to NASA research. Engineers at NASA's Langley Research Center in Hampton, Va., are testing a design for a flying wing, called a blended wing body or BWB, which would be more fuel efficient and environmentally friendly than today's aircraft. Technicians installed a five percent scale model of a BWB in the Langley Full-Scale Tunnel, owned by NASA Langley and operated by Old Dominion University ...

~~Wing Design Would Be More Fuel Efficient and ...—NASA~~

A test version of the deformable wing designed by the MIT and NASA researchers is shown undergoing its twisting motions, which could replace the need for separate, hinged panels for controlling a plane's motion. (Kenneth Cheung/NASA) Researchers have been trying for many years to achieve a reliable way of deforming wings as a substitute for the conventional, separate, moving surfaces, but all those efforts "have had little practical impact," Gershenfeld says.

~~A new twist on airplane wing design | MIT News ...~~

The Grumman X-29 was an American experimental aircraft that tested a forward-swept wing, canard control surfaces, and other novel aircraft technologies. The X-29 was developed by Grumman, and the two built were flown by NASA and the United States Air Force. The aerodynamic instability of the X-29's airframe required the use of computerized fly-by-wire control.

~~Grumman X-29—Wikipedia~~

This design of an aircraft that could enter service in the 2020 time-frame is one of a number of designs being explored by NASA with teams of researchers from industry and universities. (Boxed-Wing Reduces Drag) Boeing's advanced vehicle concept centers around the familiar blended wing body design like the X-48.

~~NASA Unveils Future Aircraft Designs: Stunning Models~~

An airplane's wing has a special shape called an airfoil. The airfoil is shaped so that the air, traveling over the top of the wing travels farther and faster than the air traveling below the wing. Thus, the faster moving air above the wing exerts less pressure than the slower moving air below the wing.

~~Principles of Flight: Foam Wing (Grades K-12)—NASA~~

Measuring 14 feet or four meters wide, the new wing is constructed from thousands of units that fit together and function in a similar way to a bird's wing, says one of the report's authors, NASA...

~~New plane wing moves like a bird's and could radically ...~~

An oblique wing is a variable geometry wing concept. On an aircraft so equipped, the wing is designed

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to rotate on center pivot, so that one tip is swept forward while the opposite tip is swept aft. By changing its sweep angle in this way, drag can be reduced at high speed without sacrificing low speed performance. This is a variation on the classic swing-wing design, intended to simplify construction and retain the center of gravity as the sweep angle is changed.

~~Oblique wing - Wikipedia~~

From end-to-end, the folding wings measure 170 feet — a high wingspan made possible by the presence of a truss, which supports the extended length of the ultra-thin wing. Boeing and NASA have been studying the TTBW concept as part of the SUGAR program for nearly a decade. Work on the program has informed cutting-edge designs and contributed to promising developments for the future of aviation centered on potential climate-saving flight technologies, alternative fuels, electric aircraft ...

~~Boeing and NASA unveil lightweight, ultra thin, more ...~~

Researchers, working in concert with the Air Force Research Laboratory (AFRL) and FlexSys Inc., of Ann Arbor, Michigan, successfully completed initial flight tests of a new morphing wing technology with the potential to save millions of dollars annually in fuel costs, reduce airframe weight and decrease aircraft noise during takeoffs and landings.

~~NASA Successfully Tests Shape Changing Wing for Next Gen ...~~

Early studies of aerodynamics showed that the shape of a wing has enormous effects on flight — but there isn't just one "best" wing shape. That definition wi...

~~NASA Designs Ultra light Wings That Change Shape During ...~~

MADCAT is making that wing a reality. The Mission Adaptive Digital Composite Aerostructure Technologies, or MADCAT, team at NASA's Ames Research Center in California's Silicon Valley, uses carbon fiber composites — a strong and light material made of carbon atoms — to design and test efficient, ultra-light wings that can adapt on the fly.

~~What is MADCAT? Flexing Wings for Efficient Flight ...~~

NASA has successfully completed the first test flights for a new airplane technology: a wing that can change shape mid-flight. The project team has already conducted 22 test flights in the last six...

~~NASA Successfully Tests New Flexible Airplane Wings ...~~

One of the wing parameters that could be determined at the early stages of wing design process is the wing vertical location relative to the fuselage centerline. This wing parameter will directly influence the design of other aircraft components including aircraft tail design, landing gear design, and center of gravity.

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