



1
00:00:02,320 --> 00:00:09,360
[Music]

2
00:00:09,360 --> 00:00:14,400
[Aircraft taking off]

3
00:00:14,420 --> 00:00:18,520
NASA's Armstrong Flight Research Center flies
what others only imagine.

4
00:00:18,860 --> 00:00:24,060
Technology drives exploration. We are developing
fiber optic sensors with a wide variety of

5
00:00:24,060 --> 00:00:26,620
uses...

6
00:00:26,620 --> 00:00:29,800
[Aircraft flying]

7
00:00:29,800 --> 00:00:34,320
...as well as testing a new, more efficient
way to send a payload into near-Earth orbit

8
00:00:34,320 --> 00:00:38,140
by launching it from a towed
glider.

9
00:00:38,140 --> 00:00:42,460
Aeronautics research is the foundation of
NASA Armstrong. We work for the flying public

10
00:00:42,460 --> 00:00:48,409
to make air travel safer, greener, and more
efficient. We mitigate sonic booms to make

11
00:00:48,409 --> 00:00:52,260
supersonic commercial flight
possible, and we develop the systems necessary

12

00:00:52,260 --> 00:00:58,080

to fully integrate unmanned aircraft into our national airspace.

13

00:00:58,080 --> 00:01:03,420

Now and in the future, NASA Armstrong is with you when you fly.

14

00:01:05,140 --> 00:01:09,720

The Stratospheric Observatory for Infrared Astronomy, NASA's flying telescope, gathers

15

00:01:09,720 --> 00:01:14,790

data for the journey of discovery beyond the solar system. By studying the cosmos, we are

16

00:01:14,790 --> 00:01:19,650

answering some of humanity's biggest questions about our place in the universe.

17

00:01:21,340 --> 00:01:26,120

The planet is changing, and we're on it. We study Earth from a unique vantage point in

18

00:01:26,120 --> 00:01:31,300

the sky, flying unmanned Global Hawks to investigate hurricanes, and the DC-8 airborne laboratory

19

00:01:31,300 --> 00:01:35,520

to conduct an extensive airborne survey of polar ice.

20

00:01:37,000 --> 00:01:40,020

We share our knowledge, providing a critical global view

21

00:01:40,020 --> 00:01:43,159

for addressing climate and societal issues.

22

00:01:43,159 --> 00:01:48,880

NASA works off Earth, for Earth. Astronauts conduct important research on the International

23
00:01:48,880 --> 00:01:54,330
Space Station, or ISS, and Armstrong provides an alternate communications relay for them

24
00:01:54,330 --> 00:01:58,570
to talk to Houston. We also host the Approach and Landing tests of Sierra

25
00:01:58,570 --> 00:02:04,030
Nevada Corporation's Dreamchaser, a proposed next generation spacecraft to taxi astronauts

26
00:02:04,030 --> 00:02:11,030
to and from the ISS, the foundation on which our path to Mars is sustainable.

27
00:02:11,450 --> 00:02:15,670
We test technologies on that path, such as the launch abort system for the deep-space

28
00:02:15,670 --> 00:02:20,909
exploring Orion capsule, and adaptive control software for the Space Launch System, flown

29
00:02:20,909 --> 00:02:27,909
aboard a modified F-18, which can closely simulate the flight path of a rocket.

30
00:02:27,909 --> 00:02:32,109
[Music]

31
00:02:32,109 --> 00:02:36,180
[Aircraft taking off]

32
00:02:36,180 --> 00:02:39,340
[Jet engine]

33
00:02:39,340 --> 00:02:41,840
NASA Armstrong drives advances in science,

34
00:02:41,840 --> 00:02:43,220
technology,

35
00:02:43,220 --> 00:02:44,380
aeronautics,

36
00:02:44,380 --> 00:02:45,970
and space exploration,

37
00:02:45,970 --> 00:02:47,530
to enhance knowledge,

38
00:02:47,530 --> 00:02:49,110
education,

39
00:02:49,110 --> 00:02:50,830
innovation,