1
00:00:00,000 --> 00:00:20,350
(Music)

2
00:00:20,370 --> 00:00:22,010
Dawn McIntosh: My name is Dawn McIntosh.

3
00:00:22,030 --> 00:00:24,990
I am Low-cost Missions at NASA Ames.

4
00:00:25,010 --> 00:00:27,910
Our teams work to design, engineer, build

5
00:00:27,930 --> 00:00:30,330
and conduct flight operations of

6
00:00:30,350 --> 00:00:32,960
low-cost space exploration missions.

7
00:00:32,980 --> 00:00:35,630
We also lead the way in partnering with

8
00:00:35,650 --> 00:00:37,390
commercial industry to streamline

9
00:00:37,410 --> 00:00:39,200
the process and reduce cost.

10
00:00:39,220 --> 00:00:44,540
(Music)

11
00:00:44,560 --> 00:00:45,960
Cetin Kiris: My name is Cetin Kiris.

12
00:00:45,980 --> 00:00:48,560
I am Advanced Computing and IT Systems

13
00:00:48,580 --> 00:00:50,680
at NASA Ames.

14
00:00:50,700 --> 00:00:52,560
As home to one of the world's fastest

15
00:00:52,580 --> 00:00:56,480
supercomputers, we create high-fidelity modeling,

16
00:00:56,500 --> 00:01:00,610
complex data analysis and detailed visualizations.

17
00:01:00,630 --> 00:01:03,150
These are used by researchers in the fields of

18
00:01:03,170 --> 00:01:07,270
Earth and space science, space explorations,

19
00:01:07,290 --> 00:01:09,060
aeronautics and more.

20
00:01:09,080 --> 00:01:14,180
(Music)

21
00:01:14,200 --> 00:01:15,840
Brandon Smith: My name is Brandon Smith.

22
00:01:15,860 --> 00:01:18,850

I am Entry, Descent & Landing
at NASA Ames.

23
00:01:18,870 --> 00:01:20,950
My colleagues and I make sure
that any spacecraft

24
00:01:20,970 --> 00:01:22,790
entering a planetary atmosphere
survives the

25
00:01:22,810 --> 00:01:25,230
fiery, high-speed descent.

26
00:01:25,250 --> 00:01:28,460
Our goal is to safely deliver
our spacecraft cargo

27
00:01:28,480 --> 00:01:30,380
whether it be a rover, science
experiments

28
00:01:30,400 --> 00:01:32,400
or a human crew coming home.

29
00:01:32,420 --> 00:01:36,160
(Music)

30
00:01:36,180 --> 00:01:37,840
Nettie Roozeboom: My name is
Nettie Roozeboom.

31
00:01:37,860 --> 00:01:40,700
I am Aerosciences at NASA Ames.

32
00:01:40,720 --> 00:01:43,570
We use our wind tunnel tests
and computer modeling

33

00:01:43,590 --> 00:01:47,350
to examine how aircraft,
spacecraft, rockets

34
00:01:47,370 --> 00:01:50,640
and other vehicles travel
through an atmosphere,

35
00:01:50,660 --> 00:01:53,350
either on Earth or on other
planets.

36
00:01:53,370 --> 00:01:55,950
Our wind tunnels have tested
and analyzed

37
00:01:55,970 --> 00:01:58,080
virtually every domestic,
commercial

38
00:01:58,100 --> 00:01:59,930
and military aircraft developed

39
00:01:59,950 --> 00:02:01,900
in the last 50 years.

40
00:02:01,920 --> 00:02:06,740
(Music)

41
00:02:06,760 --> 00:02:08,460
Ved Chirayath: My name is Ved
Chirayath.

42
00:02:08,480 --> 00:02:12,660
I am Space, Earth & Life
Sciences at NASA Ames.

43
00:02:12,680 --> 00:02:14,710
Our studies of climates and
ecosystems

44
00:02:14,730 --> 00:02:16,620
are giving us ever increasing
details on

45
00:02:16,640 --> 00:02:19,070
the relationship to life on
Earth.

46
00:02:19,090 --> 00:02:21,220
As we study our solar system,
nearby stars

47
00:02:21,240 --> 00:02:23,120
and thousands of newly
discovered planets

48
00:02:23,140 --> 00:02:25,310
in our galaxy, we will learn
just how

49
00:02:25,330 --> 00:02:27,980
common or rare our planet may
be in the

50
00:02:28,000 --> 00:02:29,940
vast reaches of space.

51
00:02:29,960 --> 00:02:34,150
(Music)

52
00:02:34,170 --> 00:02:34,760
Sharmila Bhattacharya: My name
is

53
00:02:34,780 --> 00:02:36,320
Sharmila Bhattacharya.

54
00:02:36,340 --> 00:02:40,270

I am Biology and Astrobiology
at NASA Ames.

55
00:02:40,290 --> 00:02:42,740
For decades, scientists here
have studied

56
00:02:42,760 --> 00:02:44,810
the origin, evolution,
distribution and

57
00:02:44,830 --> 00:02:48,510
future of life on Earth and in
space.

58
00:02:48,530 --> 00:02:50,880
Today, we use the International
Space Station,

59
00:02:50,900 --> 00:02:53,900
small satellites, ground-based
research

60
00:02:53,920 --> 00:02:55,680
and virtual teams around the
world

61
00:02:55,700 --> 00:02:58,590
to enable NASA's long-term
human exploration

62
00:02:58,610 --> 00:02:59,750
of space.

63
00:02:59,770 --> 00:03:03,820
(Music)

64
00:03:03,840 --> 00:03:04,910
Terry Fong: My name is Terry
Fong.

65
00:03:04,930 --> 00:03:08,430
I am Human and Robotic Systems
at NASA Ames.

66
00:03:08,450 --> 00:03:10,970
Future space vehicles will be
extremely complex.

67
00:03:10,990 --> 00:03:13,330
We are building and testing
robotic assistants

68
00:03:13,350 --> 00:03:15,150
that react and adapt to rapidly

69
00:03:15,170 --> 00:03:17,050
changing environments.

70
00:03:17,070 --> 00:03:19,190
We are also developing the
technology that

71
00:03:19,210 --> 00:03:21,840
allows remote planetary
exploration, increasing

72
00:03:21,860 --> 00:03:24,390
the safety of astronauts in
orbit.

73
00:03:24,410 --> 00:03:28,730
(Music)

74
00:03:28,750 --> 00:03:30,220
Jaewoo Jung: My name is Jaewoo
Jung.

75
00:03:30,240 --> 00:03:33,520

I am the Next Generation of Air Transportation

76
00:03:33,540 --> 00:03:34,600
at NASA Ames.

77
00:03:34,620 --> 00:03:37,390
We are helping to transform how we fly by

78
00:03:37,410 --> 00:03:40,300
developing advanced concepts and tools to create a

79
00:03:40,320 --> 00:03:43,060
safer, more reliable, efficient and

80
00:03:43,080 --> 00:03:45,030
environmentally friendly

81
00:03:45,050 --> 00:03:46,930
air transportation system.

82
00:03:46,950 --> 00:03:50,450
(Music)

83
00:03:50,470 --> 00:03:52,410
Antoinette McCoy: My name is Antoinette McCoy.

84
00:03:52,430 --> 00:03:55,140
I am Partnerships at NASA Ames.

85
00:03:55,160 --> 00:03:57,150
We are working with commercial, international,

86
00:03:57,170 --> 00:03:59,770

academic and other government
partners,

87
00:03:59,790 --> 00:04:03,090
including other NASA centers,
to dramatically

88
00:04:03,110 --> 00:04:05,130
reduce the time and cost

89
00:04:05,150 --> 00:04:06,710
to develop space missions.

90
00:04:06,730 --> 00:04:09,100
From the heart of the Silicon
Valley,

91
00:04:09,120 --> 00:04:11,060
we're designing new models to
use

92
00:04:11,080 --> 00:04:14,250
best commercial practices and
industry investments

93
00:04:14,270 --> 00:04:18,570
for creating cutting-edge space
technologies.