
WOMEN'S
HISTORY
MONTH

1
00:00:00,690 --> 00:00:05,110
[Music]

2
00:00:09,830 --> 00:00:07,190
march is women's history month and there

3
00:00:12,310 --> 00:00:09,840
are women at nasa contributing every day

4
00:00:14,230 --> 00:00:12,320
to the success of our current missions

5
00:00:18,310 --> 00:00:14,240
and paving the way for future

6
00:00:20,630 --> 00:00:18,320
generations to reach for the stars

7
00:00:23,189 --> 00:00:20,640
mallory jennings is the first female

8
00:00:26,710 --> 00:00:23,199
system manager for the extra vehicular

9
00:00:28,950 --> 00:00:26,720
mobility unit or emu the emu is the

10
00:00:30,710 --> 00:00:28,960
spacesuit worn by astronauts during a

11
00:00:32,150 --> 00:00:30,720
spacewalk outside the international

12
00:00:34,389 --> 00:00:32,160
space station

13
00:00:36,150 --> 00:00:34,399

mallory coordinates all the engineering

14
00:00:37,590 --> 00:00:36,160
aspects from hardware to new

15
00:00:39,430 --> 00:00:37,600
technologies

16
00:00:42,069 --> 00:00:39,440
from communications to thermal

17
00:00:44,310 --> 00:00:42,079
protection to oxygen all the systems

18
00:00:47,520 --> 00:00:44,320
work together to protect astronauts from

19
00:00:48,869 --> 00:00:47,530
the harsh environment of space

20
00:00:51,510 --> 00:00:48,879
[Music]

21
00:00:53,830 --> 00:00:51,520
nasa is designing new spacesuits to use

22
00:00:56,069 --> 00:00:53,840
for artemis missions to the moon

23
00:00:58,310 --> 00:00:56,079
lyanna rodrigues is leading the team

24
00:01:01,830 --> 00:00:58,320
using new technologies to develop and

25
00:01:04,149 --> 00:01:01,840
build the exploration emu spacesuit

26
00:01:06,950 --> 00:01:04,159
she's the inspirational leader who will

27
00:01:09,750 --> 00:01:06,960
help our next moonwalkers they will have

28
00:01:12,149 --> 00:01:09,760
more natural mobility and a robust life

29
00:01:14,310 --> 00:01:12,159
support system to explore the lunar

30
00:01:16,310 --> 00:01:14,320
surface and beyond

31
00:01:17,190 --> 00:01:16,320
have you ever driven a remote control

32
00:01:20,630 --> 00:01:17,200
car

33
00:01:23,109 --> 00:01:20,640
now imagine it was on another planet

34
00:01:25,350 --> 00:01:23,119
farah alibay is a systems engineer

35
00:01:28,149 --> 00:01:25,360
working on our new mars rover

36
00:01:31,190 --> 00:01:28,159
perseverance as the rover moves across

37
00:01:33,190 --> 00:01:31,200
the red planet the systems she worked on

38
00:01:36,069 --> 00:01:33,200

make sure the rover knows the direction

39
00:01:37,910 --> 00:01:36,079
it's pointed and updates that position

40
00:01:40,469 --> 00:01:37,920
for teams back on earth

41
00:01:43,429 --> 00:01:40,479
she spent last summer testing our new

42
00:01:46,550 --> 00:01:43,439
rover's capabilities in a giant sandbox

43
00:01:49,109 --> 00:01:46,560
with the replica of the rover

44
00:01:52,230 --> 00:01:49,119
not only do we study other worlds we

45
00:01:55,109 --> 00:01:52,240
also study earth our very own planet

46
00:01:57,670 --> 00:01:55,119
from space the landsat program maps

47
00:02:00,709 --> 00:01:57,680
earth's surface to provide information

48
00:02:03,429 --> 00:02:00,719
about our resources and environment

49
00:02:05,590 --> 00:02:03,439
melody jam is leading the development of

50
00:02:07,350 --> 00:02:05,600
an instrument on the newest landsat

51
00:02:08,550 --> 00:02:07,360
spacecraft that will launch this

52
00:02:10,630 --> 00:02:08,560
september

53
00:02:13,589 --> 00:02:10,640
that instrument will measure the surface

54
00:02:16,949 --> 00:02:13,599
temperatures of our planet

55
00:02:19,670 --> 00:02:16,959
lola fatimimbo age uses satellite data

56
00:02:22,550 --> 00:02:19,680
and imagery to study forests

57
00:02:24,309 --> 00:02:22,560
her research reveals how our ecology has

58
00:02:26,869 --> 00:02:24,319
changed over time

59
00:02:28,630 --> 00:02:26,879
and works to predict how it might change

60
00:02:31,190 --> 00:02:28,640
in the future

61
00:02:33,190 --> 00:02:31,200
lola is working to make our planet a

62
00:02:35,750 --> 00:02:33,200
better place

63
00:02:37,750 --> 00:02:35,760

erica alston inspires students through

64
00:02:40,229 --> 00:02:37,760
the space grant program

65
00:02:42,869 --> 00:02:40,239
as an engineer she used our satellite

66
00:02:44,070 --> 00:02:42,879
data to focus on air quality and climate

67
00:02:46,790 --> 00:02:44,080
change

68
00:02:49,589 --> 00:02:46,800
now she expands opportunities for young

69
00:02:52,710 --> 00:02:49,599
americans to understand and participate

70
00:02:55,190 --> 00:02:52,720
in our space projects just like she did

71
00:02:57,830 --> 00:02:55,200
erica is a role model for future

72
00:03:00,070 --> 00:02:57,840
generations

73
00:03:02,710 --> 00:03:00,080
did you know the skills used to build

74
00:03:05,350 --> 00:03:02,720
spacecraft were also used to develop

75
00:03:07,430 --> 00:03:05,360
ventilators for covid19 patients

76
00:03:09,509 --> 00:03:07,440
michelle easter is an expert in

77
00:03:11,910 --> 00:03:09,519
mechatronics which is the design

78
00:03:14,550 --> 00:03:11,920
assembly and test of mechanisms

79
00:03:16,710 --> 00:03:14,560
controlled by electronics she was part

80
00:03:19,589 --> 00:03:16,720
of the team that designed low-cost

81
00:03:22,070 --> 00:03:19,599
ventilators in response to the pandemic

82
00:03:24,309 --> 00:03:22,080
michelle was the first female to join

83
00:03:28,550 --> 00:03:24,319
the mechatronics group at our jet

84
00:03:33,190 --> 00:03:30,869
lori grindel is responsible for flight

85
00:03:34,869 --> 00:03:33,200
programs and projects at our armstrong

86
00:03:37,509 --> 00:03:34,879
flight research center

87
00:03:39,830 --> 00:03:37,519
lori oversees cutting-edge aerospace

88
00:03:43,030 --> 00:03:39,840

concepts and technologies

89
00:03:45,430 --> 00:03:43,040
including experimental aircraft and

90
00:03:47,750 --> 00:03:45,440
unmanned aircraft systems flight

91
00:03:50,149 --> 00:03:47,760
research and testing is vital in the

92
00:03:52,470 --> 00:03:50,159
development of new aircraft

93
00:03:54,789 --> 00:03:52,480
women's contributions at nasa reach

94
00:03:56,869 --> 00:03:54,799
other solar systems

95
00:03:58,949 --> 00:03:56,879
nicole colon's work involves the

96
00:04:01,750 --> 00:03:58,959
discovery and characterization of

97
00:04:04,630 --> 00:04:01,760
exoplanets these are planets that orbit

98
00:04:07,429 --> 00:04:04,640
around other stars using several nasa

99
00:04:10,309 --> 00:04:07,439
observatories she was able to study a

100
00:04:11,910 --> 00:04:10,319
puffy exoplanet with low density similar

101
00:04:14,550 --> 00:04:11,920
to styrofoam

102
00:04:17,909 --> 00:04:14,560
nicole's work is expanding what we know

103
00:04:23,430 --> 00:04:21,030
at nasa women innovate break barriers

104
00:04:25,430 --> 00:04:23,440
and explore the unknown

105
00:04:28,629 --> 00:04:25,440
the list of their accomplishments is

106
00:04:31,189 --> 00:04:28,639
being built upon every single day

107
00:04:33,749 --> 00:04:31,199
this march take a moment to recognize

108
00:04:36,390 --> 00:04:33,759
the contributions of women in the world

109
00:04:44,780 --> 00:04:36,400
around us and together we celebrate