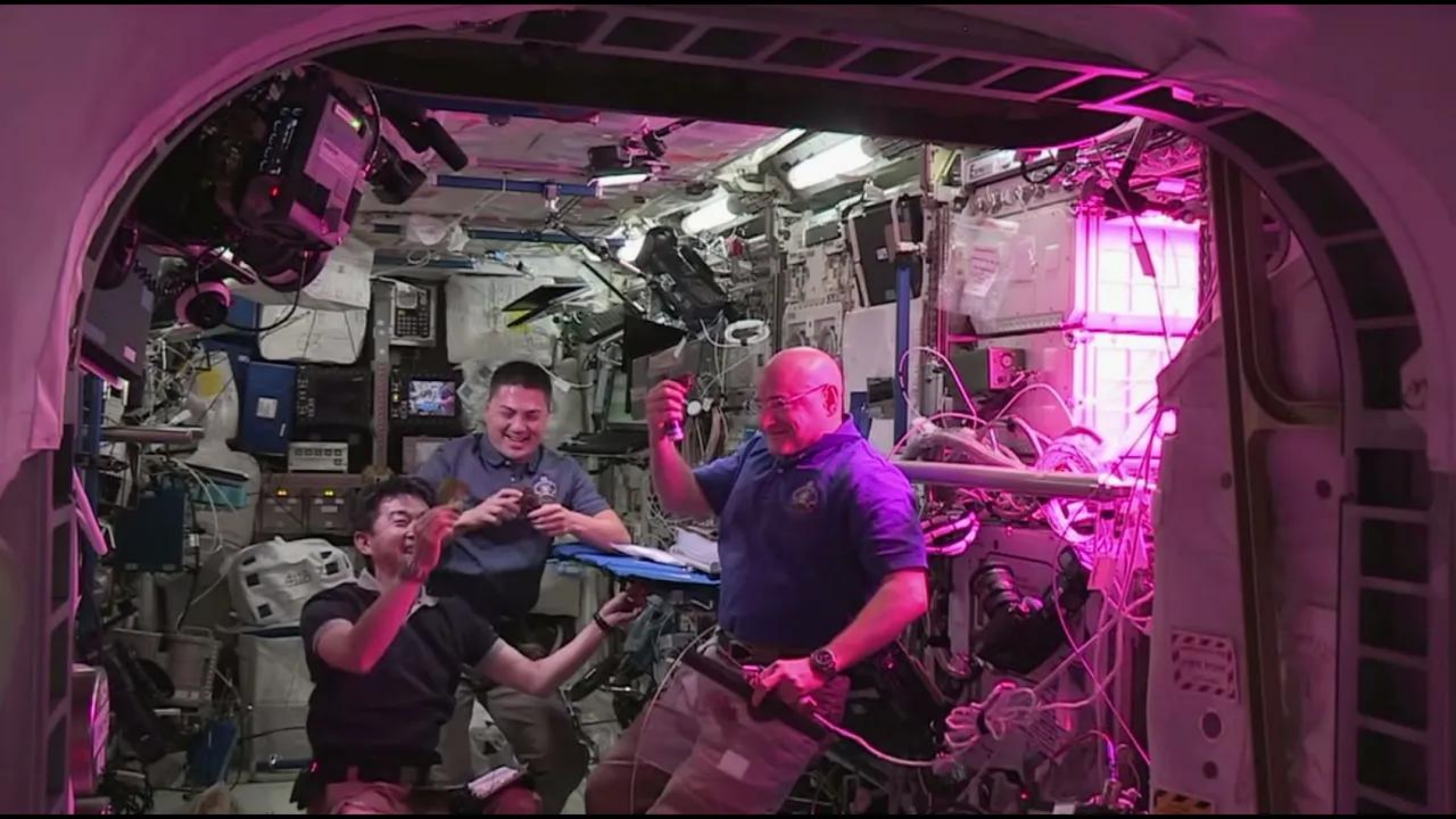

1
00:00:00,190 --> 00:00:08,790
My name is Katie Presson; my team makes science
happen on the International Space Station.

2
00:00:08,790 --> 00:00:16,350
The science that we're doing is critical
to our journey to Mars.

3
00:00:16,350 --> 00:00:22,090
As a Payload Operations Director, I lead the
team responsible for the planning, the product

4
00:00:22,090 --> 00:00:27,030
development, the training and the execution
of the science on the International Space

5
00:00:27,030 --> 00:00:28,450
Station.

6
00:00:28,450 --> 00:00:33,210
Our main goal here at Marshall is completing
the science that will benefit both future

7
00:00:33,210 --> 00:00:35,570
explores and us here on earth now.

8
00:00:35,570 --> 00:00:40,120
And we do that here at The Payload Operations
Integration Center and at Marshall Space Flight

9
00:00:40,120 --> 00:00:42,239
Center in Huntsville, Alabama.

10
00:00:42,239 --> 00:00:46,229
One of the major milestones that we've had
recently, was when the crew ate the first

11
00:00:46,229 --> 00:00:50,199
lettuce grown in space back in August of this

year.

12
00:00:50,199 --> 00:00:54,120
This was lettuce grown in one of our veggie
facility which is in one of our Payload Racks

13
00:00:54,120 --> 00:00:56,040
on The International Space Station.

14
00:00:56,040 --> 00:01:00,889
For years now we've been learning about
how plants grow in a micro-gravity environment,

15
00:01:00,889 --> 00:01:03,690
so this is an exciting milestone for us.

16
00:01:03,690 --> 00:01:06,930
Also we're doing experiments where the humans
are the experiment as part of the year-long

17
00:01:06,930 --> 00:01:08,440
mission in space.

18
00:01:08,440 --> 00:01:11,400
Also ocular health and any eye changes that
they might have.

19
00:01:11,400 --> 00:01:16,221
Counter measure to bone and muscle loss and
any cognitive changes that they might also

20
00:01:16,221 --> 00:01:17,221
have.

21
00:01:17,221 --> 00:01:21,410
Perhaps one of the most exciting aspects of
International Space Station Research, is we

22
00:01:21,410 --> 00:01:23,780

don’t know now what discoveries we may make.

23
00:01:23,780 --> 00:01:29,100
Ten to fifteen years from now we have a new technology, a new material or use for a material,

24
00:01:29,100 --> 00:01:32,180
a new vaccine or cancer treatment.

25
00:01:32,180 --> 00:01:37,200
All these thing we are making happen off the earth now, in the first global research laboratory