1
00:00:00,000 --> 00:00:06,000
I’m Molly White, an aerospace engineer working on the heat shield design for the space craft right behind me;

2
00:00:06,000 --> 00:00:14,000
MUSIC

3
00:00:14,200 --> 00:00:19,000
I work on the design of the heat shield which is the exterior layer of the space craft

4
00:00:19,000 --> 00:00:22,740
that protects it from the extreme temperatures during re-entry.

5
00:00:22,740 --> 00:00:26,000
This can get really, really hot like two-times the temperatures of molten lava.

6
00:00:26,000 --> 00:00:32,000
During the return home from Mars, the astronauts will come back through the atmosphere inside Orion.

7
00:00:32,000 --> 00:00:39,000
The vehicle will have to be able to withstand extreme temperatures during its re-entry into earth’s atmosphere

8
00:00:39,000 --> 00:00:43,000
The most recent mission landing on Mars of the Curiosity Rover,

9
00:00:43,000 --> 00:00:46,000
tested the heat shield design for that vehicle

10
00:00:46,000 --> 00:00:51,000
and knowing how well we did on that design can translate back to Orion’s design.

11
00:00:51,000 --> 00:00:56,000
Plus we landed this really cool Rover that’s paving the way for human exploration.

12
00:00:56,000 --> 00:01:04,000
The 2014 test of Orion gave us a lot of really great data to be able work on the next iteration of Orion’s design.

13
00:01:04,000 --> 00:01:13,500

I was there at the launch, I got to see the rocket go up and it just disappeared and we just crossed our fingers a

14
00:01:13,500 --> 00:01:18,500
On my design team, the best thing that we got back from the flight test was all of the data.