



ERIKA ALVAREZ
LEAD SYSTEMS ENGINEER

SLS
SPACE LAUNCH SYSTEM

1
00:00:00,011 --> 00:00:01,944
Hi, my name is Erika Alvarez

2
00:00:01,950 --> 00:00:03,517
and I'm a Lead Systems Engineer

3
00:00:03,569 --> 00:00:06,536
at Marshall Space Flight Center in Huntsville Alabama.

4
00:00:06,552 --> 00:00:09,052
And this is Rocket Science in 60 seconds.

5
00:00:09,060 --> 00:00:11,360
■■■■■

6
00:00:11,601 --> 00:00:13,601
I lead a team of engineers and analyst

7
00:00:13,602 --> 00:00:15,702
that ensure that NASA's Space Launch System meets

8
00:00:15,931 --> 00:00:17,698
a variety of mission requirements.

9
00:00:17,951 --> 00:00:19,951
■■■■■

10
00:00:20,110 --> 00:00:23,443
SLS is the most powerful rocket ever built by NASA.

11
00:00:23,645 --> 00:00:26,578
It's not just one rocket, it's designed to evolve

12
00:00:26,596 --> 00:00:29,563
to be able to carry humans and large cargo to the moon.

13
00:00:30,081 --> 00:00:32,531



14
00:00:32,536 --> 00:00:37,069
A payload can include cargo, science experiments, or special equipment.

15
00:00:37,158 --> 00:00:39,091
They're housed in a special fairing

16
00:00:39,170 --> 00:00:40,837
at the top of the rocket.

17
00:00:40,851 --> 00:00:43,251



18
00:00:43,260 --> 00:00:45,727
SLS is the only rocket that can carry

19
00:00:46,315 --> 00:00:49,282
the Orion spacecraft, astronauts, and supplies

20
00:00:49,338 --> 00:00:51,138
to the moon in one mission.

21
00:00:51,239 --> 00:00:54,406
It's first configuration will carry 57,000 pounds