



SLS
SPACE LAUNCH SYSTEM

KATHRYN CROWE
SYSTEMS ENGINEER

1
00:00:00,000 --> 00:00:03,053
I'm Kathryn Crowe, I'm a Boeing
rocket propulsion engineer

2
00:00:03,053 --> 00:00:05,789
and I'm working on NASA's
Space Launch System core stage.

3
00:00:05,789 --> 00:00:07,991
We're building it here at
NASA's Michoud Assembly

4
00:00:07,991 --> 00:00:11,728
Facility in New Orleans and this
is Rocket Science in Sixty Seconds.

5
00:00:11,728 --> 00:00:14,297
■■■■■

6
00:00:14,297 --> 00:00:17,100
As a propulsion engineer I
work with the rest of the team

7
00:00:17,100 --> 00:00:21,471
to assemble, integrate and test
the SLS propulsion system.

8
00:00:21,471 --> 00:00:24,574
■■■■■

9
00:00:24,574 --> 00:00:28,245
The engine section houses the
four engines and avionics that

10
00:00:28,245 --> 00:00:30,914
talk to both the engines and
the rest of core stage.

11
00:00:30,914 --> 00:00:33,550



12

00:00:33,550 --> 00:00:36,386

Each engine is the size of
a small compact car

13

00:00:36,386 --> 00:00:39,022

and weighs eight thousand
pounds. Don't let the size

14

00:00:39,022 --> 00:00:41,691

fool you, it'll produce over
five hundred thousand pounds

15

00:00:41,691 --> 00:00:44,394

of thrust and fire for over
eight and half minutes

16

00:00:44,394 --> 00:00:47,964

during flight. When SLS lifts
off this small part at the

17

00:00:47,964 --> 00:00:51,134

bottom end of the core stage
will have played a major roll

18

00:00:51,134 --> 00:00:53,070

in sending Americans back
to the Moon.