



1
00:00:08,230 --> 00:00:06,710
my name is dan carrigan i'm working on

2
00:00:10,549 --> 00:00:08,240
the sam project

3
00:00:12,310 --> 00:00:10,559
and specifically i'm working on the qms

4
00:00:14,310 --> 00:00:12,320
which is the quadruple mass spectrometer

5
00:00:16,630 --> 00:00:14,320
well the mass spectrometer basically

6
00:00:19,429 --> 00:00:16,640
will take the gas and break it down to

7
00:00:21,109 --> 00:00:19,439
its uh basic components and then analyze

8
00:00:23,029 --> 00:00:21,119
what those components are or determine

9
00:00:24,150 --> 00:00:23,039
what those components are the scale of

10
00:00:26,310 --> 00:00:24,160
the work is definitely one of the

11
00:00:28,790 --> 00:00:26,320
biggest challenges and i think that's

12
00:00:30,310 --> 00:00:28,800
one of the reasons why

13
00:00:32,389 --> 00:00:30,320

it's not easy to find somebody to do

14

00:00:34,630 --> 00:00:32,399

this kind of work the filaments that go

15

00:00:37,270 --> 00:00:34,640

in the electron guns those are

16

00:00:38,549 --> 00:00:37,280

not quite twice the size of a human hair

17

00:00:39,670 --> 00:00:38,559

and then just being small you can't

18

00:00:40,950 --> 00:00:39,680

handle it with your fingers it's just

19

00:00:43,110 --> 00:00:40,960

too small to handle with your fingers

20

00:00:45,110 --> 00:00:43,120

you have to use tweezers or pliers part

21

00:00:47,190 --> 00:00:45,120

of the job that i enjoy the most is just

22

00:00:49,350 --> 00:00:47,200

working with my hands and having the

23

00:00:50,790 --> 00:00:49,360

chance to be creative

24

00:00:53,110 --> 00:00:50,800

there's an opportunity to do a little

25

00:00:56,470 --> 00:00:53,120

bit of design work which i enjoy so it's

26

00:00:58,310 --> 00:00:56,480

not just one specific thing that i do

27

00:01:00,950 --> 00:00:58,320

like on a mass production line i get