
Space Shuttle

1
00:00:00,000 --> 00:00:14,605
Music

2
00:00:14,640 --> 00:00:16,301
Hi, Iím Caleb Bradford from Princeton

3
00:00:16,336 --> 00:00:17,701
University.Hi, Iím, Kim Mahung from

4
00:00:17,736 --> 00:00:19,085
Navajo Technical College.

5
00:00:19,120 --> 00:00:20,588
Weíre on the campus of Marshall

6
00:00:20,623 --> 00:00:22,140
Space Flight Center; this is where

7
00:00:22,175 --> 00:00:23,164
Americaís manned space flight program

8
00:00:23,199 --> 00:00:25,117
started over fifty years ago.

9
00:00:25,152 --> 00:00:26,629
We are two out of about one hundred

10
00:00:26,664 --> 00:00:27,685
and fifty students who are from

11
00:00:27,720 --> 00:00:28,669
around America who are spending

12
00:00:28,704 --> 00:00:30,261
the summer in a life changing

13
00:00:30,296 --> 00:00:31,357

intern program.

14
00:00:31,392 --> 00:00:32,645
Iím Katherine Barnhard from

15
00:00:32,680 --> 00:00:34,213
Georgia Tech and Iím Hisham Ali

16
00:00:34,248 --> 00:00:35,724
from the University of Alabama.

17
00:00:35,759 --> 00:00:37,300
Marshall really is the engineering

18
00:00:37,335 --> 00:00:39,349
backbone on NASA. Among other things

19
00:00:39,384 --> 00:00:41,093
the Marshall center designed and

20
00:00:41,128 --> 00:00:42,605
built the Saturn V rocket which

21
00:00:42,640 --> 00:00:43,949
used engines like these to send

22
00:00:43,984 --> 00:00:45,389
man to the moon. Marshallís past

23
00:00:45,424 --> 00:00:46,828
engineering responsibilities have

24
00:00:46,863 --> 00:00:47,981
been many including the

25
00:00:48,016 --> 00:00:49,445
Lunar Rover and Skylab,

26
00:00:49,480 --> 00:00:50,732
our first space station.

27
00:00:50,767 --> 00:00:51,900
Also, Marshall was the lead developer

28
00:00:51,935 --> 00:00:53,477
on the Space Shuttle main

29
00:00:53,512 --> 00:00:54,877
engine propulsion system

30
00:00:54,912 --> 00:00:57,161
including the SSME behind us as

31
00:00:57,196 --> 00:00:58,485
well as the solid rocket boosters

32
00:00:58,520 --> 00:00:59,989
and the external fuel tank.

33
00:01:00,024 --> 00:01:01,197
Iím Candace Rice from Alabama

34
00:01:01,232 --> 00:01:02,405
Agriculture and Mechanical

35
00:01:02,440 --> 00:01:03,773
University, and Iím Jesus Trillo

36
00:01:03,808 --> 00:01:05,549
from the University of Texas at

37
00:01:05,584 --> 00:01:07,629
El Paso. Marshall went on to

38
00:01:07,664 --> 00:01:09,175

manage and operate Spacelab,

39
00:01:09,210 --> 00:01:10,589
the science lab that flew on

40
00:01:10,624 --> 00:01:11,957
Shuttle, and then built modules

41
00:01:11,992 --> 00:01:13,749
of the International Space Station,

42
00:01:13,784 --> 00:01:15,397
and to this day manages the

43
00:01:15,432 --> 00:01:17,005
science activities that occur,

44
00:01:17,040 --> 00:01:19,373
here, onboard twenty four seven.

45
00:01:19,408 --> 00:01:21,045
Marshall also managed the

46
00:01:21,080 --> 00:01:22,252
development of the Hubble

47
00:01:22,287 --> 00:01:23,701
Space Telescope, the

48
00:01:23,736 --> 00:01:25,461
Chandra X-ray Telescope a

49
00:01:25,496 --> 00:01:26,885
nd is now working with the

50
00:01:26,920 --> 00:01:28,660
James Webb Space Telescope.

51
00:01:28,695 --> 00:01:29,965
Iím Doug Hall from Vanderbilt

52
00:01:30,000 --> 00:01:31,757
University and Iím Elizabeth Qian

53
00:01:31,792 --> 00:01:33,429
from MIT. The biggest undertaking

54
00:01:33,464 --> 00:01:35,237
at Marshall now is the Space

55
00:01:35,272 --> 00:01:37,204
Launch System or SLS, this

56
00:01:37,239 --> 00:01:38,112
will be the most powerful

57
00:01:38,147 --> 00:01:39,525
rocket ever built and will

58
00:01:39,560 --> 00:01:40,860
provide opportunities to explore

59
00:01:40,895 --> 00:01:42,869
the moon, asteroids and Mars.

60
00:01:42,904 --> 00:01:44,653
Where ever you spend your Marshall

61
00:01:44,688 --> 00:01:46,533
summer program you learn a lot

62
00:01:46,568 --> 00:01:48,349
about NASA, Marshall Space Flight

63
00:01:48,384 --> 00:01:49,853

Center, the Huntsville community

64
00:01:49,888 --> 00:01:51,349
and the history and future of

65
00:01:51,384 --> 00:01:53,140
Americaís space program.

66
00:01:53,175 --> 00:02:01,733
Title music

67
00:02:01,768 --> 00:02:04,509
This summer internship has been

68
00:02:04,544 --> 00:02:06,645
amazing. Itís meant a lot to me

69
00:02:06,680 --> 00:02:08,852
both professionally and just as a

70
00:02:08,887 --> 00:02:10,141
matter of personal interest.

71
00:02:10,176 --> 00:02:12,101
So as a pre-med student basically

72
00:02:12,136 --> 00:02:14,269
a requirement at this stage is

73
00:02:14,304 --> 00:02:15,997
that you have to do a lot of

74
00:02:16,032 --> 00:02:17,637
undergraduate research, and

75
00:02:17,672 --> 00:02:20,509
as far as research goes, when

76
00:02:20,544 --> 00:02:22,477
you say that you worked for NASA

77
00:02:22,512 --> 00:02:23,820
and you did research for NASA

78
00:02:23,855 --> 00:02:26,389
that just sticks in peoples heads.

79
00:02:26,424 --> 00:02:27,885
So Iíve been working with a

80
00:02:27,920 --> 00:02:30,300
microbial electrolysis cell.

81
00:02:30,335 --> 00:02:33,397
So basically what this cell will do

82
00:02:33,432 --> 00:02:36,645
in the future is it eats carbon dioxide

83
00:02:36,680 --> 00:02:39,580
that you exhale and things like that.

84
00:02:39,615 --> 00:02:41,508
So it lowers cabin carbon dioxide levels.

85
00:02:41,543 --> 00:02:43,516
The cell could also theoretically

86
00:02:43,551 --> 00:02:46,188
make an arbitrary organic product

87
00:02:46,223 --> 00:02:47,589
that you tell it to, whether thatís

88
00:02:47,624 --> 00:02:50,269

a bio plastic or a medicine called

89
00:02:50,304 --> 00:02:52,373
granulocyte colony-stimulating factor

90
00:02:52,408 --> 00:02:54,341
which is used to treat radiation exposure.

91
00:02:54,376 --> 00:02:56,524
But unfortunately the shelf life of

92
00:02:56,559 --> 00:03:00,165
that medicine is really small

93
00:03:00,200 --> 00:03:02,429
compared to things like a trip to Mars.

94
00:03:02,464 --> 00:03:05,309
So you canít just take it with you,

95
00:03:05,344 --> 00:03:07,829
what you have to do almost

96
00:03:07,864 --> 00:03:09,133
is find a way to make it, which

97
00:03:09,168 --> 00:03:11,164
you could do with this cell that

98
00:03:11,199 --> 00:03:13,541
I am experimenting with.

99
00:03:13,576 --> 00:03:15,325
So Iím here with the NASA Robotics

100
00:03:15,360 --> 00:03:17,140
Academy which is a really great

101
00:03:17,175 --> 00:03:18,477
program because it introduces you

102
00:03:18,512 --> 00:03:20,429
to NASA as a whole and gets you to

103
00:03:20,464 --> 00:03:22,005
understand how NASA works.

104
00:03:22,040 --> 00:03:23,301
Iím working in a team of three people

105
00:03:23,336 --> 00:03:25,005
and the three of us have been

106
00:03:25,040 --> 00:03:26,701
working on building a new set of

107
00:03:26,736 --> 00:03:28,268
air bearing vehicles for the

108
00:03:28,303 --> 00:03:29,885
Marshall flat floor facility

109
00:03:29,920 --> 00:03:30,908
which is the flattest floor

110
00:03:30,943 --> 00:03:32,213
in the world. With the Robotics

111
00:03:32,248 --> 00:03:33,333
Academy weíve also gotten to

112
00:03:33,368 --> 00:03:34,509
travel to Kennedy Space Center

113
00:03:34,544 --> 00:03:36,525

and the Jet Propulsion Lab in California

114
00:03:36,560 --> 00:03:38,149
and see the work that is being currently

115
00:03:38,184 --> 00:03:39,765
done there which has also been very exciting.

116
00:03:39,800 --> 00:03:41,085
Iíve benefitted tremendously from this

117
00:03:41,120 --> 00:03:42,668
program both professionally and

118
00:03:42,703 --> 00:03:44,677
technically. Iíve had the opportunity

119
00:03:44,712 --> 00:03:47,205
to work with a world class facility

120
00:03:47,240 --> 00:03:49,717
with world class experts in my field.

121
00:03:49,752 --> 00:03:51,397
Iíve been involved in rapid prototyping

122
00:03:51,432 --> 00:03:55,261
for a long while. Our focus really is

123
00:03:55,296 --> 00:03:57,956
for sustainable, in-space manufacturing

124
00:03:57,991 --> 00:04:00,132
and one of the ways in which we can

125
00:04:00,167 --> 00:04:01,517
do that is through additive manufacturing

126
00:04:01,552 --> 00:04:03,924
or what is commonly known as 3D printing.

127
00:04:03,959 --> 00:04:05,989
And so just the possibility to

128
00:04:06,024 --> 00:04:08,829
contribute to something much larger

129
00:04:08,864 --> 00:04:10,189
than myself, something that could

130
00:04:10,224 --> 00:04:11,661
actually make sustainable moon base

131
00:04:11,696 --> 00:04:13,948
development a reality is really exciting.

132
00:04:13,983 --> 00:04:15,957
Oh my gosh! Itís a life changing

133
00:04:15,992 --> 00:04:17,509
experience for me I never thought

134
00:04:17,544 --> 00:04:21,781
I would be here. I am barely starting

135
00:04:21,816 --> 00:04:25,141
out learning a program; itís Delmia

136
00:04:25,176 --> 00:04:26,733
that I was really working on and

137
00:04:26,768 --> 00:04:28,956
learning how to program robots. S

138
00:04:28,991 --> 00:04:34,141

pecifically to learn how robots

139
00:04:34,176 --> 00:04:39,044
will change in movement, in rotationÖ

140
00:04:39,079 --> 00:04:42,773
everything from gravity to no gravity.

141
00:04:42,808 --> 00:04:44,748
What I heard from the instructors

142
00:04:44,783 --> 00:04:48,149
back home is that they will be

143
00:04:48,184 --> 00:04:50,701
learning Delmia themselves, and so

144
00:04:50,736 --> 00:04:52,669
itís just a great experience where

145
00:04:52,704 --> 00:04:54,973
I will know what theyíre talking

146
00:04:55,008 --> 00:04:56,837
about already and how to help other

147
00:04:56,872 --> 00:04:58,973
people and how to make it easier

148
00:04:59,008 --> 00:05:01,284
for everybody else to learn it.

149
00:05:01,319 --> 00:05:05,021
My first recommendation is apply.

150
00:05:05,056 --> 00:05:08,540
If you donít apply you will never

151
00:05:08,575 --> 00:05:12,109
get an internship. Apply and be

152
00:05:12,144 --> 00:05:14,141
optimistic, be confident that

153
00:05:14,176 --> 00:05:16,116
you are going to get the internship,

154
00:05:16,151 --> 00:05:20,173
thatís what I did. Iím working on

155
00:05:20,208 --> 00:05:22,036
the Propulsion Systems DepartmentÖ

156
00:05:22,071 --> 00:05:24,765
have been disassembling the F1 gas

157
00:05:24,800 --> 00:05:28,141
generator valve. We changed the seals,

158
00:05:28,176 --> 00:05:30,613
we checked their conditions and I

159
00:05:30,648 --> 00:05:32,828
just learned so much. For example,

160
00:05:32,863 --> 00:05:36,525
I have seen a lot of thermal dynamics,

161
00:05:36,560 --> 00:05:39,261
and system dynamics and thermal fluids

162
00:05:39,296 --> 00:05:41,453
and I havenít taken those classes.

163
00:05:41,488 --> 00:05:45,117

So I have learned a lot from it and

164
00:05:45,152 --> 00:05:46,732
I know when I go back to school Iím

165
00:05:46,767 --> 00:05:49,644
going to be more than ready for it.

166
00:05:49,679 --> 00:05:52,213
The internship that Iím in is NSTI

167
00:05:52,248 --> 00:05:53,588
internship, thatís dealing with science

168
00:05:53,623 --> 00:05:55,357
and technology. And Iíve gained

169
00:05:55,392 --> 00:05:59,469
so much with just these two months

170
00:05:59,504 --> 00:06:00,677
that I have been here and I would

171
00:06:00,712 --> 00:06:02,156
recommend it to anyone. Having an

172
00:06:02,191 --> 00:06:04,237
internship basically leaves a very

173
00:06:04,272 --> 00:06:06,029
good impact on your life and the

174
00:06:06,064 --> 00:06:09,181
relationships that you make here

175
00:06:09,216 --> 00:06:12,029
travel with you forever. Within the

176
00:06:12,064 --> 00:06:14,149
office of OSAC, thatís Office of

177
00:06:14,184 --> 00:06:16,341
Strategic Analysis and Communications

178
00:06:16,376 --> 00:06:18,749
we conduct different tours. And weíre

179
00:06:18,784 --> 00:06:20,844
having congressional interns that are

180
00:06:20,879 --> 00:06:22,956
coming to visit Marshall and we will

181
00:06:22,991 --> 00:06:24,965
basically inform them on the great

182
00:06:25,000 --> 00:06:26,109
things that are happening here at

183
00:06:26,144 --> 00:06:28,725
Marshall. Marshall is exceptionally cool!

184
00:06:28,760 --> 00:06:31,085
Like Iíve done so many things and

185
00:06:31,120 --> 00:06:33,044
Iím very very grateful for this

186
00:06:33,079 --> 00:06:35,404
internship. I was able to travel to DC

187
00:06:35,439 --> 00:06:37,181
and actually meet the administrator

188
00:06:37,216 --> 00:06:40,413

Charlie Bolden and that was amazing.

189
00:06:40,448 --> 00:06:42,045
Iíve met different astronauts and

190
00:06:42,080 --> 00:06:44,245
Iíve had a chance to see the actual

191
00:06:44,280 --> 00:06:45,997
background of Marshall as a whole.

192
00:06:46,032 --> 00:06:48,860
So I was an intern two years ago

193
00:06:48,895 --> 00:06:50,821
and this year Iím back with the

194
00:06:50,856 --> 00:06:52,381
NASA academy program. So Iíve

195
00:06:52,416 --> 00:06:54,428
been looking at the dust production

196
00:06:54,463 --> 00:06:57,165
of comets. So err comets they produce

197
00:06:57,200 --> 00:06:58,477
dust, thatís what gives them

198
00:06:58,512 --> 00:06:59,829
their tale like structures.

199
00:06:59,864 --> 00:07:01,333
And whatís interesting is that

200
00:07:01,368 --> 00:07:02,965
their dust production changes with

201
00:07:03,000 --> 00:07:04,852
time and we donít really understand

202
00:07:04,887 --> 00:07:06,612
those mechanisms too well.

203
00:07:06,647 --> 00:07:07,894
So what Iíve been doing is Iíve

204
00:07:07,929 --> 00:07:09,765
been monitoring three comets over

205
00:07:09,800 --> 00:07:11,125
the summer and seeing how their

206
00:07:11,160 --> 00:07:12,557
dust production changes.

207
00:07:12,592 --> 00:07:15,741
My mentors and I, we produced a small

208
00:07:15,776 --> 00:07:18,165
publication two years ago but weíre

209
00:07:18,200 --> 00:07:19,557
working on another publication,

210
00:07:19,592 --> 00:07:20,716
a kind of in a higher level journal

211
00:07:20,751 --> 00:07:22,669
this summer. And I donít know

212
00:07:22,704 --> 00:07:24,285
if I would have had that same

213
00:07:24,320 --> 00:07:25,949

experience in other internships.

214
00:07:25,984 --> 00:07:27,557
Iíve been working with a program

215
00:07:27,592 --> 00:07:29,876
called POST, a program to

216
00:07:29,911 --> 00:07:32,229
optimize simulated trajectories.

217
00:07:32,264 --> 00:07:33,565
Itís one of the programs my

218
00:07:33,600 --> 00:07:36,181
division uses to do three degree

219
00:07:36,216 --> 00:07:38,484
of freedom trajectories. Iíve just

220
00:07:38,519 --> 00:07:40,517
been learning how to use the program

221
00:07:40,552 --> 00:07:43,261
with the trajectories for SLS.

222
00:07:43,296 --> 00:07:48,525
What do I think makes a successful

223
00:07:48,560 --> 00:07:50,485
intern? Err, the willingness to

224
00:07:50,520 --> 00:07:55,308
explore and learn more about things

225
00:07:55,343 --> 00:07:57,301
you may have never even heard of before.

226
00:07:57,336 --> 00:08:00,334
Iíve been wanting to work for

227
00:08:00,369 --> 00:08:02,253
NASA since I was a little kid.

228
00:08:02,288 --> 00:08:04,717
When I was six years old my teacher

229
00:08:04,752 --> 00:08:09,084
pulled out a globe and was like this

230
00:08:09,119 --> 00:08:10,476
is the earthÖlet me teach you about

231
00:08:10,511 --> 00:08:13,373
the other planets, and I was memorized,

232
00:08:13,408 --> 00:08:16,573
I loved every minute of it. I ran home

233
00:08:16,608 --> 00:08:18,245
screaming mommy, daddy I want to go to

234
00:08:18,280 --> 00:08:20,125
spaceÖthis is the coolest thing ever.

235
00:08:20,160 --> 00:08:23,085
And they told me about NASAÖand like

236
00:08:23,120 --> 00:08:24,445
Iím working there! My love for space

237
00:08:24,480 --> 00:08:27,301
turned into a love of physics which

238
00:08:27,336 --> 00:08:29,325

turned into love of engineering,

239
00:08:29,360 --> 00:08:30,397
the practical application of this,

240
00:08:30,432 --> 00:08:33,077
and itís really whatís made me want

241
00:08:33,112 --> 00:08:35,685
to become an engineer and do something

242
00:08:35,720 --> 00:08:38,020
for the greater cause of

243
00:08:38,055 --> 00:08:39,245
sending people to space.

244
00:08:39,280 --> 00:08:40,869
So I would definitely recommend an

245
00:08:40,904 --> 00:08:44,789
NSTF. NSTF stands for NASA Space

246
00:08:44,824 --> 00:08:47,252
Technology Fellowship, and Iím part

247
00:08:47,287 --> 00:08:49,261
of the inaugural class which the

248
00:08:49,296 --> 00:08:52,437
first year it was implemented was 2011.

249
00:08:52,472 --> 00:08:56,453
NSTF is really for graduate students.

250
00:08:56,488 --> 00:08:58,901
So NASA is really seeking individuals

251
00:08:58,936 --> 00:09:04,876
who show potential towards fulfilling

252
00:09:04,911 --> 00:09:08,045
goals for NASAís strategic missions

253
00:09:08,080 --> 00:09:10,069
and challenges. For example, weíre

254
00:09:10,104 --> 00:09:12,445
working on light weight, high

255
00:09:12,480 --> 00:09:15,212
strength cryo tanks, one of the

256
00:09:15,247 --> 00:09:17,180
first in the world. So Iíve been

257
00:09:17,215 --> 00:09:18,981
able to apply the research that I

258
00:09:19,016 --> 00:09:20,133
have been working on over the

259
00:09:20,168 --> 00:09:21,637
course of the year towards a

260
00:09:21,672 --> 00:09:23,485
real world application.

261
00:09:23,520 --> 00:09:25,772
And you will not get that anywhere else.

262
00:09:25,807 --> 00:09:27,701
With the work that I am doing here

263
00:09:27,736 --> 00:09:30,909

I had an opportunity to submit an

264
00:09:30,944 --> 00:09:33,045
abstract to the International

265
00:09:33,080 --> 00:09:35,493
Astronautical Congress which

266
00:09:35,528 --> 00:09:37,581
is a conference which is held

267
00:09:37,616 --> 00:09:41,229
in Naples Italy this year.

268
00:09:41,264 --> 00:09:42,581
The vice president of research a

269
00:09:42,616 --> 00:09:43,717
t the University of Alabama

270
00:09:43,752 --> 00:09:44,989
in Huntsville is sponsoring

271
00:09:45,024 --> 00:09:46,997
any student that gets accepted

272
00:09:47,032 --> 00:09:48,821
as a main author into the

273
00:09:48,856 --> 00:09:51,309
main symposium. I submitted

274
00:09:51,344 --> 00:09:53,101
this paper with my mentor

275
00:09:53,136 --> 00:09:54,533
at NASA and it got accepted.

276
00:09:54,568 --> 00:09:56,588
So Iím also writing the paper

277
00:09:56,623 --> 00:09:59,549
for the conference. The US is

278
00:09:59,584 --> 00:10:00,884
going to be there, all the

279
00:10:00,919 --> 00:10:03,349
NASA centersÖyou name it, MIT,

280
00:10:03,384 --> 00:10:06,133
Caltech all the big name and

281
00:10:06,168 --> 00:10:09,277
all the little namesÖweíre

282
00:10:09,312 --> 00:10:10,237
all going to be there.

283
00:10:10,272 --> 00:10:11,868
So Iíll have a chance to talk

284
00:10:11,903 --> 00:10:13,204
to them about all the work that

285
00:10:13,239 --> 00:10:14,821
I have been doing. Itís kind

286
00:10:14,856 --> 00:10:16,797
of a big stress but I have

287
00:10:16,832 --> 00:10:18,557
fifteen minutes to present

288
00:10:18,592 --> 00:10:19,885

and five minutes of Q&A

289
00:10:19,920 --> 00:10:21,253
so Iíd better be ready.

290
00:10:21,288 --> 00:10:22,485
Our intern coordinators are

291
00:10:22,520 --> 00:10:23,773
Mona and Tina and they have

292
00:10:23,808 --> 00:10:24,941
done a great job of having us,

293
00:10:24,976 --> 00:10:26,077
you know, get acclimated to the

294
00:10:26,112 --> 00:10:27,084
city and providing us with the

295
00:10:27,119 --> 00:10:28,077
opportunities to go out and see

296
00:10:28,112 --> 00:10:29,237
how Marshall contributes to the

297
00:10:29,272 --> 00:10:31,061
community at large and then all

298
00:10:31,096 --> 00:10:32,733
we have to offer here as far as

299
00:10:32,768 --> 00:10:34,637
jobs and research opportunities.

300
00:10:34,672 --> 00:10:36,917
There is no part of my internship a

301
00:10:36,952 --> 00:10:38,245
nd my time here that I have

302
00:10:38,280 --> 00:10:40,493
regretted or wish that I had

303
00:10:40,528 --> 00:10:41,526
spent somewhere else. Itís

304
00:10:41,561 --> 00:10:43,500
been incredible to, one; see the

305
00:10:43,535 --> 00:10:44,741
city which is growing and

306
00:10:44,776 --> 00:10:46,252
just full of things to do,

307
00:10:46,287 --> 00:10:48,261
and full of interesting people

308
00:10:48,296 --> 00:10:49,277
from all across the world.

309
00:10:49,312 --> 00:10:52,821
And again just to get your hands

310
00:10:52,856 --> 00:10:54,917
dirty as they say a lot of times

311
00:10:54,952 --> 00:10:57,413
with your fieldÖto get a feel

312
00:10:57,448 --> 00:10:59,069
for what you want to do in

313
00:10:59,104 --> 00:11:00,509

life and an opportunity to

314
00:11:00,544 --> 00:11:02,285
networkÖto meet others like

315
00:11:02,320 --> 00:11:04,861
yourself. Itís unbelievably

316
00:11:04,896 --> 00:11:08,117
amazing to feel thatÖyeah,

317
00:11:08,152 --> 00:11:09,685
thereís no one wouldnít e

318
00:11:09,720 --> 00:11:11,021
njoy this opportunity.

319
00:11:11,056 --> 00:11:12,029
A unique feature of the

320
00:11:12,064 --> 00:11:13,884
internship program at NASA

321
00:11:13,919 --> 00:11:15,061
Marshall Space Flight Center

322
00:11:15,096 --> 00:11:16,917
is our poster expo. At the

323
00:11:16,952 --> 00:11:18,724
end of the ten weeks our i

324
00:11:18,759 --> 00:11:20,141
nterns have an opportunity to

325
00:11:20,176 --> 00:11:22,197
present their work, highlight

326
00:11:22,232 --> 00:11:24,357
their research at a poster

327
00:11:24,392 --> 00:11:26,757
expo that we have here at Marshall.

328
00:11:26,792 --> 00:11:28,549
The purpose and the intent

329
00:11:28,584 --> 00:11:29,916
is to provide students

330
00:11:29,951 --> 00:11:31,477
the opportunity to enhance

331
00:11:31,512 --> 00:11:33,221
their presentation skillsÖ

332
00:11:33,256 --> 00:11:35,165
that they can use in the future.

333
00:11:35,200 --> 00:11:36,933
Whether at a professional conference,

334
00:11:36,968 --> 00:11:38,909
at a meeting at schoolÖitís an

335
00:11:38,944 --> 00:11:41,445
opportunity to learn really.

336
00:11:41,480 --> 00:11:43,725
But as an incentive weíve been

337
00:11:43,760 --> 00:11:45,108
fortunate to have Lockheed Martin

338
00:11:45,143 --> 00:11:47,109

provide prize awards so that it

339
00:11:47,144 --> 00:11:48,565
gives an added benefit to doing

340
00:11:48,600 --> 00:11:53,005
your best work. And thatís what

341
00:11:53,040 --> 00:11:54,309
we hope to showcase when we