



1

00:00:08,100 --> 00:00:12,260

NARRATOR>> How can we provide STEM opportunities for traditionally underrepresented groups?

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00:00:12,280 --> 00:00:16,460

Here at Goddard, Internal Research and Development is funding a

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00:00:16,480 --> 00:00:20,460

program for high school students to come do innovative research with

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00:00:20,480 --> 00:00:24,650

NASA heliophysics scientists. MIN>> Our school has a special program

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00:00:24,670 --> 00:00:28,710

called Science and Technology, and an option is you can

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00:00:28,730 --> 00:00:32,890

have an internship at a research institute, and I chose

7

00:00:32,910 --> 00:00:36,920

to do NASA. CHRISTIAN>> At my school we have a corporate work-study program, so everybody

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00:00:36,940 --> 00:00:40,950

goes to work one day a week. Last year, the junior year, when we started covering

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00:00:40,970 --> 00:00:45,020

stuff about the Sun, after school my teacher kinda told me more about it, and it

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00:00:45,040 --> 00:00:49,200

kinda set me up for that position. NARRATOR>> The Heliophysics Work-Study

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00:00:49,220 --> 00:00:53,370

and Academic Year Internship Program compares the effectiveness of

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00:00:53,390 --> 00:00:57,380

Don Bosco Cristo Rey High School's work-study program and Eleanor

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00:00:57,400 --> 00:01:01,380

Roosevelt High School's STEM Academic Year Research Experience Program.

14

00:01:01,400 --> 00:01:05,390

In both cases, the students get to have exciting new learning

15

00:01:05,410 --> 00:01:09,580

experiences. GEORGIA>> My students that I'm mentoring have been focusing on

16

00:01:09,600 --> 00:01:13,590

using images from the Solar Dynamics Observatory

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00:01:13,610 --> 00:01:17,700

to identify jets, and we're trying to understand

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00:01:17,720 --> 00:01:21,880

together how these particles are escaping the Sun. They're looking at these images,

19

00:01:21,900 --> 00:01:25,900

they have to decipher between various phenomena on

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00:01:25,920 --> 00:01:30,080

the Sun, and really identify specific jets that are associated

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00:01:30,100 --> 00:01:34,080

with events that we see in space at the same time.

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00:01:34,100 --> 00:01:38,090

MIN>> I realized that working at NASA was not all about lab coats and beakers.

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00:01:38,110 --> 00:01:42,090

Now I know how to do statistical analysis on my data. I can

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00:01:42,110 --> 00:01:46,090

now actually write a research paper. CHRISTIAN>> I think aerospace engineering

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00:01:46,110 --> 00:01:50,290

is what I'll most likely do in college, either that or physics. I'm really hoping to go to

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00:01:50,310 --> 00:01:54,300

St. Louis University next near. I think this program was a huge help

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00:01:54,320 --> 00:01:58,310

in getting into these programs, because my GPA I wouldn't say is the greatest. Coming to

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00:01:58,330 --> 00:02:02,320

these colleges with a background of research is a huge help.

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00:02:02,340 --> 00:02:06,320

GEORGIA>> The value of working with students like this is really two-fold.

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00:02:06,340 --> 00:02:10,340

One, I benefit from the enthusiasm they bring, and also just

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00:02:10,360 --> 00:02:14,360

a new perspective that they bring as well. Also, they

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00:02:14,380 --> 00:02:18,370

are getting some of the work done, which is fabulous. NARRATOR>> Benefits

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00:02:18,390 --> 00:02:22,390

for the mentors, benefits for the students - the Heliophysics Work-Study

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00:02:22,410 --> 00:02:26,420

and Academic Year Internship Program is opening doors for

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00:02:26,440 --> 00:02:30,440

underserved demographics of students and is great for everyone involved.