



UNITED STATES
AIR FORCE ACADEMY

USAFA K-12 STEM Outreach Program Newsletter

October 2019

Volume 3, Number 4

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United States Air Force Academy and Air Force STEM Webpages

<https://www.usafa.edu/stem-outreach/>

<http://www.usafa.af.mil/>

<https://afstem.afciviliancareers.com/>



QR Code for USAFA K-12
STEM Outreach page

Congratulations to the Extra Yard for Teachers Grant Winners!



FREE Astronaut Adventures Event

On November 26th USAFA will host an astronaut event for 4th-12th graders at Arnold Hall from 9:30-12:30. The event will feature former astronaut, Digger Carey, chemistry activities and an astronaut planetarium show. To register for the event, please email sandra.lamb.ctr@usafa.edu with student name, school, grade level, and number of adult chaperones if applicable. Registration will close on Friday, November 22nd at 4:00 PM. The maximum number of attendees for the event is 330.

FREE Lincoln Laboratory Radar Introduction Course

Lincoln Laboratory Radar Introduction for Student Engineers (LLRISE) is a radar workshop focused on the combination of college-level class lectures and a hardware building experience. Students gain in-depth experience while building small radar systems. Participants are challenged to build a Doppler and range-radar by using creative problem-solving strategies. The hands-on program allows students to work in a state-of-the-art laboratory with highly talented scientists and engineers.

Who can apply? Rising high school seniors (apply in junior year)

What is the eligibility? Must be U.S. citizen (permanent resident are not eligible)

What is the cost? The program is free and includes room and board. Students provide their own transportation to and from the MIT Main campus. Application will be available in early January. The application will need:

USAFA K-12 STEM Outreach Mission

The United States Air Force Academy Science, Technology, Engineering, and Math (STEM) Outreach Program mission is to offer a variety of programs and services that effectively engage, inspire and attract the next generation of STEM talent.

USAFA Office of Research

DFRO Mission

Execute today's research in order to develop leaders for tomorrow's battlespace

Vision

Be the catalyst for innovation supporting all institutional research, brokering key associations, and developing officers of character

for the Air Force

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- 2 recommendations (one from a math teacher and another from a science/engineering teacher)
- Copy of transcript(s)
- Copy of standardized scores (optional)
- 3 short essays

All applications must be completed online.

The application can be found at <https://www.ll.mit.edu/outreach/llrise>, once available. Please email LLRISE@LL.mit.edu with questions.

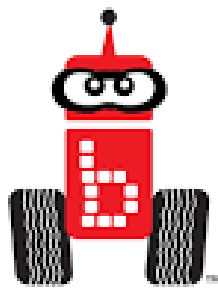
**Persons from underrepresented groups include, but are not limited to, African Americans, Hispanic Americans, Native Americans, Alaskan Natives, Pacific Islanders, women, persons with disabilities, persons from disadvantaged backgrounds and active military dependents are strongly encouraged to apply. **

Welcome USAFA Legacy STEM Camp Site Manager



DeLene Hoffner has been hired as the Legacy STEM Camp Site Manager. She's already busy planning and coordinating the summer 2020 camps. Legacy STEM day camps are free and 60 students are chosen. Annually, the application window opens on January 1st and close March 1st. Dates for the 2020 camps are June 8-12th for 11-12 year olds and June 15-19th for 13-15 year olds. Apply at https://wpafbstem.com/pages/legacy_afa.html

Expanding Botball Robotics in the Pikes Peak Region



We're looking for teachers to coach Botball teams. Botball teaches students C, C+ and Python programming languages. Grants are available to cover the middle and high school \$2,500 kits and registration fee in an applied setting. The next elementary training is Oct 26th at King Elementary from 9:00-3:00 PM. A February training for middle and high school teachers will be February 8th & 9th with a challenge in the Spring. For more information about Botball, please see <https://www.kipr.org/> or

<https://www.youtube.com/watch?v=-CXyFSN3J-w>. This is a great opportunity to teach kids coding! Contact Sandy Lamb if interested @ sandra.lamb.ctr@usafa.edu.