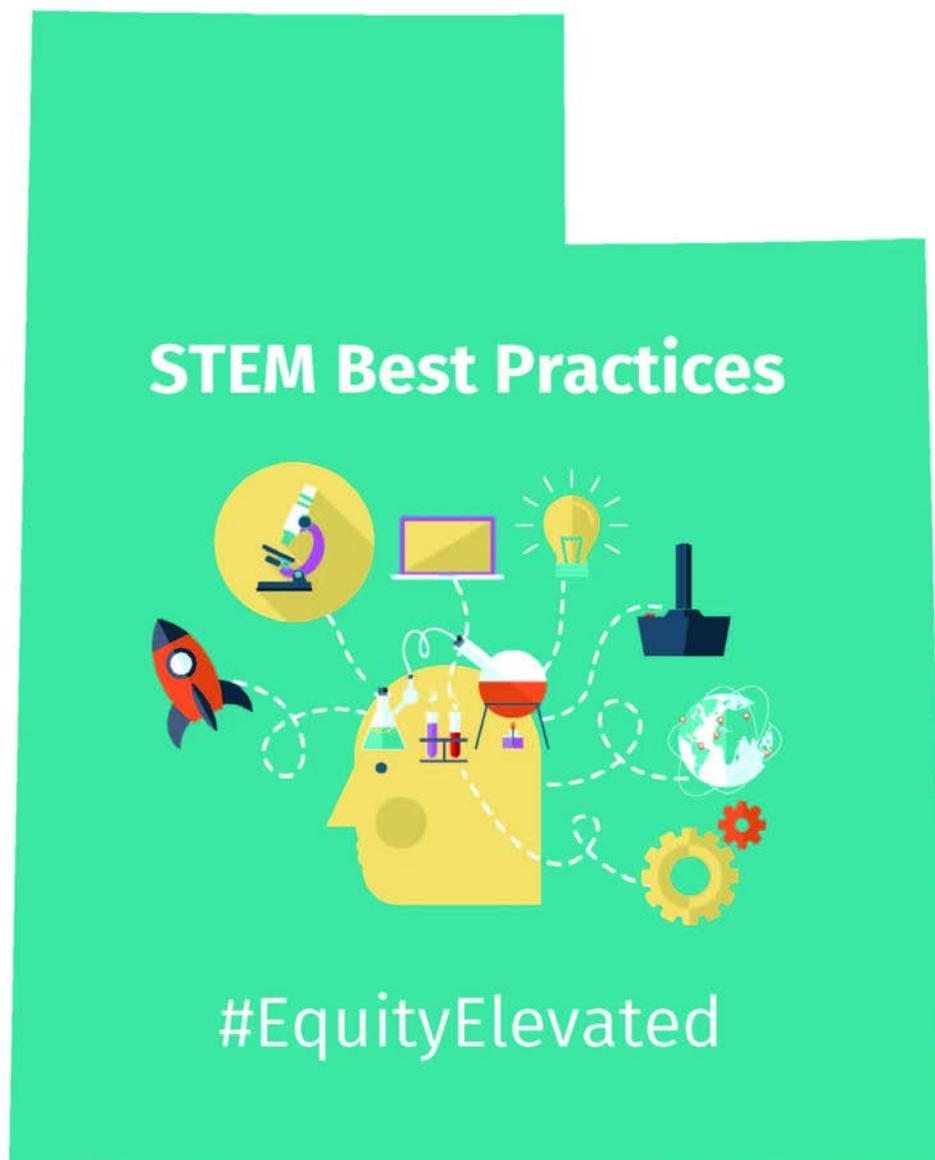


[View this email in your browser](#)



June 2019 Newsletter



STEM Best Practices Conference 2019

The STEM Best Practices Conference is June 10, 2019 at the Davis Conference Center in Layton. This is an opportunity to learn about STEM Best Practices from Utah experts and leaders in our K-12 STEM community. The conference will highlight projects and communities from across the state who are experiencing success with STEM learning, and announce new opportunities for engaging with the STEM Action Center. It will also provide excellent opportunities for networking with other STEM stakeholders to form new

partnerships. Seven re-licensure points are available for full-day attendees.

[More Information](#)



STEM Fest 2019

Registration is now open! STEM Fest will take place Monday, October 7th & Tuesday, October 8th, 2019. This event is for students grades 6th - 10th.

Registration is required for schools to attend. Family Night (open to all ages) will be Monday, October 7th, from 4:30-8:30 PM.

[More Information](#)

STEM NEWS





Natural History Museum Summer Camps

Camps inspire passion and spark curiosity for the natural world, with engaging activities, experienced leaders, and an unbeatable setting! Camps are based at the Natural History Museum on the University of Utah with some camps hosted at partner venues in Salt Lake City.

[Read More](#)



Northern Utah STEM Camps

Camping at the YMCA of Northern Utah is a fun and unique experience that gives Utah kids the opportunity to discover their full potential, meet new friends, play, and create memories that will last a lifetime.

[Read More](#)

Utah County Summer Camps

Beat the boredom with the 25 camps for kids in Utah County this summer. Camps range from LEGO robot, explore insects, Math Adventure Camp, Space Education, LEGO Engineering, STEM exploration and many more.

[Read More](#)



First Girl Scout STEM Day

ST. GEORGE — From creating bracelets representing binary code to making rubber band cars, Girl Scouts in Southern Utah gathered at Dixie State University for a day filled with STEM-related activities.

[Read More](#)



'Camp Invention' Returning to St. George

ST. GEORGE — Camp Invention, a nationally recognized, nonprofit summer enrichment camp program, is once again coming to Crimson View Elementary School the week of June 3.

The popular five-day program attracted about 150 participants to the school last year, according to a news release announcing the event.

[Read More](#)



Old Airplane, New Classroom

HILL AIR FORCE BASE — If you're teaching STEM students about flight, doing it within the walls of an actual airplane seems like the ideal setting.

The Hill Aerospace Museum and Aerospace Heritage Foundation of Utah has opened a new, undoubtedly unique classroom for Science, Technology, Engineering and Math students — a Vietnam era C-130 Hercules.

[Read More](#)

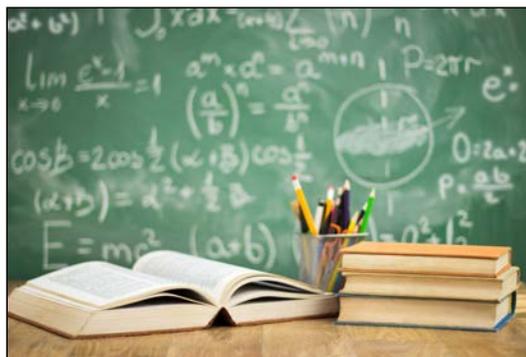


Mission to Mars

OGDEN, Utah - Hill Air Force Base and Weber State University brought nearly 300 fifth-grade students from local elementary schools to the WSU campus to participate in the annual Mission to Mars link-up day May 2.

Mission to Mars is sponsored by the Hill AFB STEM (science, technology, engineering and math) Outreach Program and WSU's College of Engineering, Applied Science and Technology.

[Read More](#)



19 Utah Schools Receive STEM Designation

SALT LAKE CITY - The Utah State Board of Education approved 19 public schools throughout the state for the Utah STEM School Designation.

The board, in partnership with the Utah STEM Action Center, developed the designation program to better define the elements necessary to create a comprehensive learning environment for students in science, technology, engineering and math.

[Read More](#)



UK Partnership Encourages Young People into STEM

WISE has launched STEM Accord, a partnership with various organizations aimed at encouraging more young people to consider careers in science, technology, engineering and maths (STEM).

The partnership with the ERA Foundation, STEM Learning, the Design and Technology Association and the Smallpeice Trust will see WISE work alongside the Royal Academy of Engineering, Engineering UK and the IET to develop a plan for outreach in schools to encourage more young people, girls in particular, into STEM.

[Read More](#)



New Laws & Programs Prepare Utah Students

Are the graduates of Utah's 429 high schools prepared to fill the jobs of the state's growing tech industry?

"There are more than 1,500 open software development jobs in Utah right now across all industries," said House Representative John Knotwell. "Utah's economy continues to grow at a rapid pace fueled in large part by a young, motivated and creative workforce. And while these things are great, there is more that we can and we must do."

[Read More](#)



College Loops 2019 Application is Now Live!

Apply now to bring Girls Who Code to your college. In the fall of 2019, [College Loops](#) will expand to 300 colleges and universities across the country. Each College Loop will center on custom challenges encouraging members to: connect with women in computer science, participate in regional events with our corporate partners, and receive exclusive swag as part of being in our sisterhood.

[Apply Here](#)

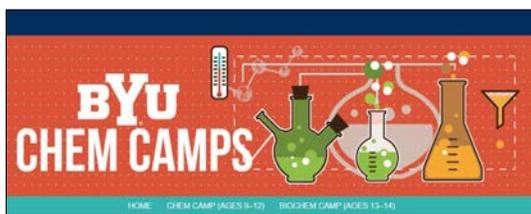


Apply Now to Start a Girls Who Code Club

As an international non-profit, Girls Who Code is proud to work alongside Community Partners to close the gender gap in technology. Now in their 7th year, they have reached 185,000 girls supporting their passion to code!

This is an exciting time to join the movement--they received 6,500 Club applications for just the 2018-19 year alone--and they are hoping others will join them!

[Learn More](#)



BYU Chem Camps

Discover how chemistry makes a difference in your everyday life!

- Ages 9-14
- 9-10 year olds, 4 half-days; 11-12 year olds 2 full days, 13-14 year olds 3 full days Biochem Camp
- June and July 2019
- \$135 - Scholarships for free and reduced school lunch recipients
- 100 slots (50 boys & 50 girls)

[More information](#)



Code Ninja Summer Camps

Fun and rewarding coding camps for kids ages 7 - 14.

Summer Classes: Game Builders' Club, Beginning Javascript, Minecraft Create, Roblox Create, Browse & Build, App Builders' Club and Hack Attack!

[More information](#)



USU Summer App Camps

Join us this summer for fun and exciting weeklong computer science camps. Learn how to make phone apps! We will hold four camps in June 2019 on the USU Logan Campus. We are also recruiting high school aged youth to be camp mentors. Mentor training will be held June 3-7. Registration is now open.

[Read More](#)



BYU Girls Code Camp

The Computer Science Department is running a coding camp for girls ages 8-11. This camp is for beginning coders. The 2019 camp will be June 3-6 from 1 pm to 5 pm daily.

The students will be learning through coding activities, both plugged and unplugged, have snacks, enjoy team building activities, get a fun t-shirt, and more. The students will have personal instruction from BYU counselors.

[More information](#)



National Youth Science Camp



Apply online: <http://apply.nyscamp.org>

Established in 1963 in West Virginia, the **National Youth Science Camp** is an honors program for two accomplished high school graduates from each state in the United States of America and others from around the world. The 2019 NYSCamp begins on June 27 and ends on July 20, 2019.

Overview: The NYSCamp is a broad science, technology, engineering, and mathematics program that incorporates both creative and performing arts as well as an outdoor adventure series including opportunities for rock climbing, mountain biking, spelunking, whitewater kayaking, and overnight backpacking. The delegation travels to Washington, D.C. where they are able to tour museums and other attractions near the National Mall and attend a panel discussion held at the American Association for the Advancement of Science. See <http://www.nyscamp.org> for more information or to apply.

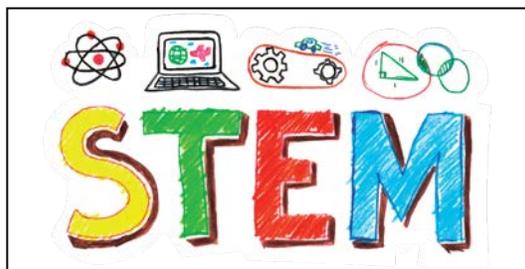
Highlights:

- Lectures and Seminars with leading scientists from across the United States
- Directed Studies alongside visiting and resident STEM professionals
- Dedicated natural science, physical science, computer science, creative arts, performing arts, and outdoor recreation program areas.
- Delegates attend **free of charge** – transportation included!

Application Requirements:

- Graduate from high school between July 1, 2018 and June 30, 2019.
- Documented superior academic proficiency.
- Recognition for notable achievement in mathematics or science.
- Skills and achievements outside of STEM and outside academics.
- Intent to pursue higher education and career in STEM.
- Availability to participate in entire NYSCamp program.
- Submit your application online at <http://apply.nyscamp.org>.

Post Office Box 3387 – Charleston – West Virginia 25333-3387 USA
(204) 205-6754 – FAX (800) 833-8879 – www.nysf.com



Logan Pride Center Hosting Free STEM Camp

A free camp this summer aims to provide LGBTQ+ youth a safe place to connect with their peers and participate in activities relating to science, technology, engineering and math, or STEM.

“We felt that it was important to facilitate activities for queer and questioning youth to be able to participate in something like STEM education while exploring their identity,” said Crista Sorenson, developmental director at the Logan Pride Center.

[Read More](#)

STEM EVENTS



PC Codes offers technology summer camps for students in the Park City area. Our camps are designed to be engaging, hands-on, creative and fun. In our week-long sessions, students will learn about a concept in computer science, practice that concept, and work with other campers to create and display an end-of-week capstone project. We are able to differentiate our camps so that both beginners and experts will feel challenged and have fun. **Who we are:** Christian Waters is the Director of Technology Integration at the Rowland Hall School and Kelly Henderson is a Computer Science teacher at Park City High School. We are both career educators specializing in making computer science approachable and fun.



Camps will take place at the Park City High School. Contact info@pccodes.net with questions.

Robo Wars

July 22 - 26 for students ages 8 - 14. 8:30 - 12:00, \$289



In this week-long camp, kids will learn how robotics work, and build projects for a variety of different robots: Wonder Workshop, Lego Mindstorms, and Vex robotics kits to accomplish such missions as robot soccer and robot sumo wrestling. Students will also build their own interactive robotic machines that can sense and react to the world around them. This camp welcomes beginners and experts alike.

Video Game Design

July 22 - 26 for students ages 9 - 13. 12:30 - 4:00, \$289



This camp takes students on a deep-dive exploration of video games and how they are designed. We will use Scratch, Python and Arduino to make some amazing video games. At the end of the week, campers will create an interactive video game controller that connects to the game that they designed. This camp will appeal to both newbies and pros.

Girls in Tech

July 29 - Aug. 2 for students ages 9 - 13, 8:30 - 12:00, \$289



In this girls-only camp we will use Micro:bits to build digital pets that respond to us, throw a robotic dance party with dances choreographed to the music of your choosing and create some wearable tech. Let's design, invent, create and code together. Grab a friend and sign up!

Learning Architecture with Minecraft

July 29 - Aug. 2 for students ages 9 - 13, 12:30 - 4:00, \$289



Take your Minecraft skills to the next level with this fun, collaborative camp where students learn about some of humanity's most famous buildings and work together to reconstruct them in the world of Minecraft. Students will learn that Minecraft is more than just a game, it can also be a first step in immersive, computer aided 3D Design. Students will have to work together to design, collect resources, and construct buildings. At the end of camp, we will present a gallery tour of the campers' creations.





AWE + SUM

ATTEND • WESTMINSTER • EXPLORE • SCIENCE • USE • MATH

SUMMER CAMP

JUNE 17-20, 2019

FOR GIRLS CURRENTLY IN 7th AND 8th GRADES



This camp is a unique opportunity for current 7th and 8th grade girls to spend four days enjoying hands-on math and science workshops and other activities on Westminster's campus. Girls stay in a residence hall at Westminster and are supervised by adult chaperones during daytime activities and during their overnight stays.

To attend, submit an application and ask your math or science teacher to submit a teacher recommendation form. In the first round of acceptances, by March 15, generally no more than two girls per school will be admitted, with some exceptions. Go to westminstercollege.edu/camps for more information and application forms. Scholarships available.

WESTMINSTERCOLLEGE.EDU/CAMPS



Academy for Math, Engineering & Science (AMES) Summer Robotics Camp is the perfect option for those looking to explore how to design, build and program robots of all sorts of shapes, sizes, and complexity! Students will develop their building and programming skills as well as touch on teamwork and presentation skills using robotics platform LEGO MINDSTORMS EV3. At the end of the camp, attendees invite their family and friends to join us for a showcase celebration to share their final products and highlight some of the concepts covered.

STUDENTS LEARN:

- Engineering design process
- 3D printing
- Programming using EV3
- Teamwork & presentation skills

STUDENTS CREATE:

- Portfolio of designs and projects
- Robots that can complete a given challenge
- Programs using the EV3 software
- 3D object using CAD

Camp is Monday, June 10th – Thursday, June 13th
Options for enrollment include:
Morning (9 am - 12:00 pm)
Afternoon (1 pm - 4 pm)
Full Day (9 am - 4 pm) (Enroll in both options)
Lunch break for Full Day Campers is from 12-1:00 pm.

Ages 7-14

LOCATION
AMES (south side of Cottonwood High School)
5715 South 1300 East
Murray, UT 84123
801-278-9460

COST
Cost for each camp is \$135 if registered on or before May 20th.
After May 20th cost for each camp is \$150. Fees are non-refundable.

REGISTRATION
Visit <http://www.ames.utah.edu/robotics>
or in person at AMES main office

SNACKS & LUNCHES
Full Day Campers must provide their own lunch. We will provide light snacks similar to goldfish, pretzels, fruit snacks and popcorn. Please feel free to send an alternative nut-free snack if your child does not care for these.

ames.ampers@gmail.com Instagram: @amesrobotics Facebook: The AMES Ampers






STEM is Power...

to innovate, create, and discover!

2018 SUMMER CAMP SCHEDULE

REGISTER at TheStemShopper.com

| Month | Monday | Tuesday | Wednesday | Thursday | Friday |
|-------|---|---|--|---|--|
| JUNE | Week 1 June 4 SAP1-SPH1 Polymers 101 SPE-4PH1 Water Balloon Race! | June 5 STEM Challenges SPE-4PH1 Math Bootcamp | June 6 SAP1-SPH1 Candy Experiments SPE-4PH1 Make it Glow! | June 7 SAP1-SPH1 Technology Basics SPE-4PH1 Mindcraft! | June 8 SAP1-SPH1 Reverse Engineering SPE-4PH1 Summer Showcase |
| | Week 2 June 11 SAP1-SPH1 Toy Design SPE-4PH1 Puzzle Making | June 12 STEM Challenges SPE-4PH1 Math Bootcamp | June 13 SAP1-SPH1 Sevens & Eights SPE-4PH1 Kite Engineering | June 14 SAP1-SPH1 Candy Experiments SPE-4PH1 Foam Rocket! | June 15 - Fieldtrip SAP1-SPH1 & SPE-4PH1 Cedar Breaks National Monument |
| | Week 3 June 18 SAP1-SPH1 Chromatography SPE-4PH1 Water Balloon Race! | June 19 STEM Challenges SPE-4PH1 Math Bootcamp | June 20 SAP1-SPH1 Ozobot Robotics SPE-4PH1 Light | June 21 SAP1-SPH1 Green Screen Videos SPE-4PH1 Candy Experiments | June 22 SAP1-SPH1 Reverse Engineering SPE-4PH1 Candy Project |
| | Week 4 June 25 SAP1-SPH1 Aerodynamics SPE-4PH1 Physics Basics | June 26 STEM Challenges SPE-4PH1 Math Bootcamp | June 27 SAP1-SPH1 Flight Robotics SPE-4PH1 Robots in the Park | June 28 SAP1-SPH1 Green Screen Videos SPE-4PH1 Jeopardy | June 29 - Fieldtrip SAP1-SPH1 & SPE-4PH1 Utah State Capitol |
| | Week 5 July 2 SAP1-SPH1 Levers & Pulleys SPE-4PH1 Physics, Oh My! | July 3 STEM Challenges SPE-4PH1 Math Bootcamp | July 4 Closed | July 5 SAP1-SPH1 Coding SPE-4PH1 Electricity | July 6 SAP1-SPH1 Gravity SPE-4PH1 Sound Waves |
| | Week 6 July 9 SAP1-SPH1 Volleyball SPE-4PH1 Momentum | July 10 STEM Challenges SPE-4PH1 Math Bootcamp | July 11 SAP1-SPH1 Boddington SPE-4PH1 Energy | July 12 SAP1-SPH1 Animations SPE-4PH1 Ultimate Frisbee | July 13 - Fieldtrip SAP1-SPH1 & SPE-4PH1 Tennis Lessons SPE-4PH1 Dinner & Testing |
| | Week 7 July 16 SAP1-SPH1 Edible Chemistry SPE-4PH1 Kitchen Inquiry Labs | July 17 STEM Challenges SPE-4PH1 Math Bootcamp | July 18 SAP1-SPH1 Potion Making SPE-4PH1 Tie Dyeing | July 19 SAP1-SPH1 Game Design SPE-4PH1 Chemical Reactions | July 20 SAP1-SPH1 Candy Experiments SPE-4PH1 Ice Cream Party! |
| | Week 8 July 23 SAP1-SPH1 Earth, Sun & Moon SPE-4PH1 Constellations | July 24 Closed | July 25 SAP1-SPH1 Space Shuttle Design SPE-4PH1 Planet Extraterrestrials | July 26 SAP1-SPH1 Draw a water/coins SPE-4PH1 3D Solar System Models | July 27 - Fieldtrip SAP1-SPH1 & SPE-4PH1 Light Pollution SPE-4PH1 Clark Planetarium |
| | Week 9 August 6 SAP1-SPH1 Ball Launch Experiments SPE-4PH1 Wildlife Design | August 7 STEM Challenges SPE-4PH1 Math Bootcamp | August 8 SAP1-SPH1 Solar Energy SPE-4PH1 Bioscience Energy | August 9 SAP1-SPH1 & SPE-4PH1 Build a Rover SPE-4PH1 Utah Energy City | August 10 - Fieldtrip SAP1-SPH1 & SPE-4PH1 Hydrothermal Vents SPE-4PH1 Gardens of George |
| | Week 10 August 13 SAP1-SPH1 Ball Launch Experiments SPE-4PH1 Wildlife Design | August 14 STEM Challenges SPE-4PH1 Math Bootcamp | August 15 SAP1-SPH1 Local Hydrothermal Vents SPE-4PH1 Chromatography | August 16 SAP1-SPH1 Candy Experiments SPE-4PH1 Empowerment | August 17 SAP1-SPH1 & SPE-4PH1 Light Pollution SPE-4PH1 Utah Energy City |
| | Week 11 August 20 SAP1-SPH1 Ball Launch Experiments SPE-4PH1 Wildlife Design | August 21 STEM Challenges SPE-4PH1 Math Bootcamp | August 22 SAP1-SPH1 Hydrothermal Vents SPE-4PH1 Therapy | August 23 SAP1-SPH1 Empowerment SPE-4PH1 Utah Energy City | August 24 SAP1-SPH1 Hydrothermal Vents SPE-4PH1 Utah Energy City |
| | Week 12 August 27 SAP1-SPH1 Ball Launch Experiments SPE-4PH1 Wildlife Design | August 28 STEM Challenges SPE-4PH1 Math Bootcamp | August 29 SAP1-SPH1 Hydrothermal Vents SPE-4PH1 Therapy | August 30 SAP1-SPH1 Empowerment SPE-4PH1 Utah Energy City | August 31 SAP1-SPH1 Hydrothermal Vents SPE-4PH1 Utah Energy City |

*Wednesday - 12PM-1PM Lunch in the Park/ Water Balloon Fight (for Full Day Campers)
Schedule subject to change
626 Shepard Ln, Farmington UT • 801-200-0017

UPCOMING STEM EVENTS

- Summer 2019 - Code Ninjas Summer Camps - [More information](#)
- June 3 - 6, 2019 - BYU Girls Code at BYU - [More information](#)
- June 2019 - USU Summer App Camps - [More information](#)
- Summer 2019 - Kids STEM Camps, [More information](#)
- June 2019 - Thanksgiving Point 7th-12th Grade Summer Camps, [More information](#)
- June 2019 - UVU Summer STEM Camps - [More information](#)
- June 10, 2019 - STEM Best Practices - Davis Conference Center, [More information](#)
- June 10-13, 2019 - AMES Summer Robotics Camp, [More information](#)
- June 10-13, 2019 - Designer Maker Creator Builder - Butterfly Biosphere, [More information](#)
- June 17 - 20, 2019 - AWE+SUM Summer Camp at Westminster College - [More information](#)
- June & July, 2019 - BYU Chem Camp - [More information](#)
- July 15 - 19, 2019 - Professional Learning workshop in Vancouver, WA - [Apply here](#)
- July 15, 2019 - Altec Design Web Scholarship applications due - [More information](#)
- June 19 & 20, 2019 - Mini Makers - Museum of Natural Curiosity, [More information](#)
- July 15-19, 2019 - Pride Center STEM Camp - [More information](#)
- July 22 - 26, 2019 - www.pccodes.net Summer Camps - [More information](#)
- July 22 - 26, 2019 - AccessCSforAll for teachers working with hearing-impaired - [More information](#)
- July 29 - August 2, 2019 - www.pccodes.net Summer Camps - [More information](#)
- October 7 & 8, 2019 - STEM Fest 2019 - Mountain America Expo - [More information](#)
- October 21 - 23, 2019 - CSForAll Summit - University of Utah - more information to come

STEM PROGRAMS & GRANTS

CSforAll Training

The STEM Action Center, in partnership with CSforAll and several local LEAs, are offering day workshops to support districts of a strategic plan. If your district is interested in forming a team for a strategic planning workshop, please feel free to contact Tami Goetz at the STEM Action Center (tgoetz@utah.gov; 801-674-2405).

STEM Code.org Training

Applications are now open for Code.org professional learning program. For middle school teachers, we have spaces available for our Computer Science Discoveries (CSD) program. CSD is designed for students 6th-10th grade, and can be taught as a semester or full year program. For high school teachers, we have spaces available in our Computer Science Principles (CSP) program, which is designed for students 9th-12th grade. It can be taught as a full year introductory course or as a full year AP course. More information about CSD can be found here: <https://code.org/educate/csd> and more information about CSP can be found here: <https://code.org/educate/csp>

The professional learning program consists of a 5-day workshop from June 24-June 28 at Dell EMC in Draper, and several academic year workshops held on Saturdays in the Fall and Spring. We cover the costs for training, including your materials, supplies and lunches.

To apply, visit <https://code.org/educate/professional-learning/program-information>, and fill out an application. Teachers will need their principal's approval and must commit to attending all workshop days, including the academic year workshops.

Any questions about the professional learning program can be directed to Lynn Purdin (lpurdin@utah.gov).

STEM SCHOOL DESIGNATIONS

Interested in becoming a STEM School? Intent to apply due in October.

[To see a list of our STEM School Designation Awardees](#)

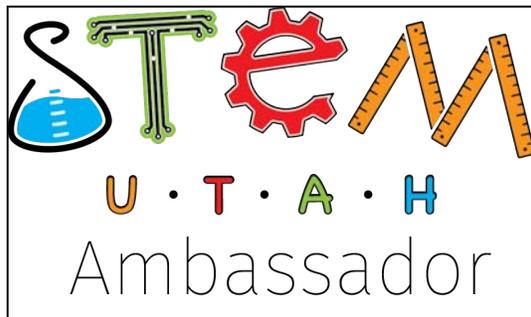
STEM BUS



The teaching season for the STEM Bus team has finally come to an end for this school year. We finished this school year reaching our highest number of students yet - **10,780 students!!!**

We will be staying busy over the summer presenting at STEM Best Practices at the Davis Conference Center June 10th, as well as the Utah Rural Schools Association Conference in Price, Utah July 10th-12th. We will also be traveling throughout the state to train teachers on our new Robot Libraries, an initiative that will allow educators to check out and use robotics equipment free of charge! To learn more about robotics training, contact the education center that serves your region or email beccarobison@utah.gov

STEM AMBASSADORS



The Utah STEM Action Center is always looking for high school and college students as well as recent college graduates and industry professionals who have a passion for STEM and would like to volunteer their time promoting science, technology, engineering, and math to K-12 students and educators throughout the State of Utah.

[Apply to become an ambassador](#)

STEM SPOTLIGHT

Virtual Reality is Virtually Limitless

For Ryan Buchanan, Founder of VR Dev Kids, there are no limits to what virtual reality (VR) can



do when it comes to taking learning to another level.

[Read More](#)

STEM CURRICULUM IDEAS

STEM Lessons That Tie to State Standards

We are working on building a lesson library on our new website! Have a STEM lesson that ties to state standards that you want to share? Use this link:

<https://stem.utah.gov.dev/juiceboxint.com/educators/lesson-library/submission-form/>



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Utah Governor's Office of Economic Development

Our mailing address is:
stem@utah.gov

Want to change how you receive these emails?
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