

[View this email in your browser](#)



April 2019 Newsletter



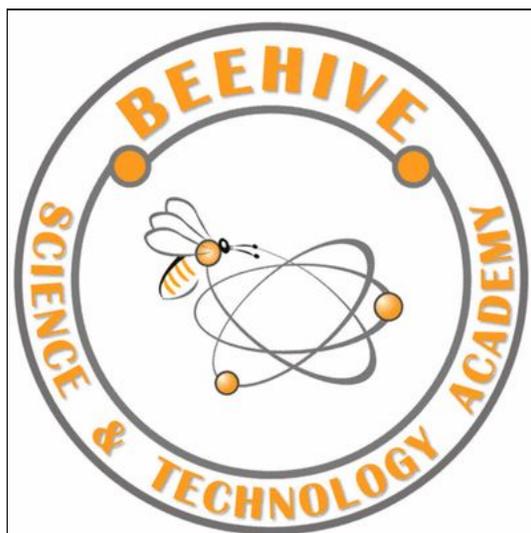
Utah State Legislature passed HB 227

During the 2019 Legislative Session, the Utah State Legislature passed HB 227: the Utah Computer Science Grant Act, sponsored by Representative John Knotwell and Senator Ann Milner. The purpose of the bill was to expand Computer Science education opportunities for students in Utah. The bill calls for the establishment of a statewide strategic plan for CS education and a

grants program for LEAs who create their own four-year strategic plans. These plans must align to the state plan and describe how they will train their teachers and meet the goal of integrating CS into the curriculum of each elementary school in their LEA and offer one CS class at each middle and high school. The legislature was able to provide \$3.1M in one-time funding for this endeavor.

[Read More](#)

STEM NEWS



Computer Science Female Diversity Award

Sandy —Beehive Science and Technology Academy has earned the first College Board AP[®] Computer Science Female Diversity Award for achieving high female representation in AP Computer Science Principles. Schools honored with the AP Computer Science Female Diversity Award have expanded girls' access in AP Computer Science courses. Out of more than 18,000 secondary schools worldwide that offer AP courses, Beehive Science and Technology Academy is one of only 685 to accomplish this.

[More information](#)



Jazz CenturyLink STEM Excellence Awardee

Municipal Elementary School student Kayden Branch's love of math has consistently placed him at the top of his class in the subject throughout his K-5th grade career. The 5th grader's high math marks and remarkable robotics skills were rewarded at halftime during the March 14, 2019, Jazz home game at Vivint Arena, with Kayden joining the ranks of fellow CenturyLink STEM Excellence Awardees.

[Read More](#)



SheTech Explorer Day

Calling all high school girls! Discover the good you can do in the fields of science and technology. Build your confidence in believing that you can do great things! The STEM Conference is a great opportunity to find your passion! Discover if you should get more involved in these fields. Talk with different companies who have a passion for the sciences and learn from the best about the latest and greatest technology.

[Read More](#)



Comcast Cares Day

On April 20, Salt Lake City School District middle and high school students and their parents will converge at East High School in Salt Lake City, to test out some of the latest technologies in a one-day hands-on STEM (Science, Technology, Engineering and Math) as part of Comcast Cares Day.

Comcast partners with We Are Makers, Salt Lake Education Foundation, and Salt Lake School District, to give students and parents the opportunity to participate in eight hands-on workshops: drone piloting, full immersion virtual reality, IT, information design, 3D design & print, and robotics.

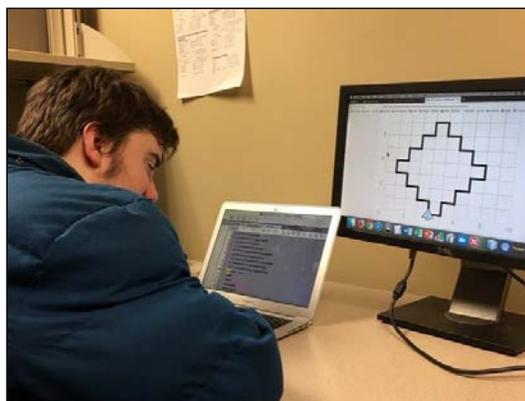
[Learn More](#) search by "East High School"



South Jordan Now Home to Karate-Themed Kids Coding Center

South Jordan— Say the words, “video game” and your kids are bound to stop and listen. The local owner of a new [Code Ninjas](#), a learning center that had its debut on March 23 at 3721 W. South Jordan Parkway, Ste. 130, knows that video games aren’t only fun, but educational. Code Ninjas will serve the local area by teaching children computer coding and problem solving skills while having fun building video games.

[Read More](#)



AccessCSforAll for blind and visually impaired students!

At this year's Special Interest Group on Computer Science Education (SIGCSE), our research partners at AccessCSforAll shared their work to modify the curriculum to meet the needs of these students. This is a truly comprehensive project that involved everything from redesigning more accessible versions of widgets, to redesigning programming units to use the Quorum programming language, to making all virtual and printed resources support screen readers.

[Read More](#)



Utah First State to Declare Girls in Tech Day

SALT LAKE CITY, March 21, 2019 /PRNewswire/ -- The Women Tech Council (WTC) today announced the successful completion of the first annual Utah Girls in Tech Day on March 20, a day designated by the Utah Legislature and Governor Gary R. Herbert and in partnership with Women Tech Council, to increase the number of girls entering the tech industry. Utah is the first state in the nation to create a day dedicated to recognizing, engaging and activating girls in tech, and by doing so creates a unified effort of companies, educators, parents and communities to help activate more girls to tech, expanding the state's talent pipeline and economy.

[Read More](#)



Utah's Tech Outcomes Show the Way Out of Nation's Tech Shortage

LEHI, Utah, March 12, 2019 (SEND2PRESS NEWSWIRE) — Bottega is giving back in a big way to the community that has allowed it to experience tremendous growth. “We’ve already given more than \$5 million of educational programs to high school students and teachers, and have plans to give another \$5 million this summer. These programs are important to us because they directly address the needs of Utah in two critical areas, while also giving us the data we need to evolve our learning platform,” says Eric Wold, Founder and CEO of Bottega.

[Read More](#)



Utah is the 8th Most Innovative State

Utah is the eighth most-innovative state in the country according to a [study released Monday](#) from WalletHub. Massachusetts tops the list and Mississippi rounds out the bottom. At its 2019 [Silicon Slopes](#) Tech Summit in January, Utah Governor Gary Herbert, Lieutenant



Lava Ridge Students Persuade Lawmakers to Make Gila Monster Utah's State Reptile

ST. GEORGE — The Gila monster is now Utah's official state reptile, thanks to the collective lobbying efforts of a group of seventh-graders at Lava Ridge Intermediate School in Santa Clara. In the closing minutes of the 2019 legislative

Governor Spencer Cox and the CEO of Pluralsight Aaron Skonnard discussed [getting computer science into every Utah School by 2022](#), KUTV's [Holly Menino](#) reported.

[Read More](#)



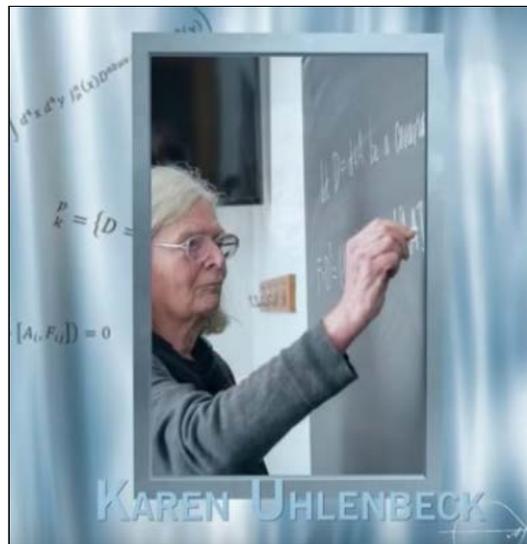
College Loops 2019 Application is Now Live!

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](#)

session, the Utah Senate voted unanimously to pass [House Bill 144](#), which amends Section 63G-1-601 of the state code to add the following line: "13) Utah's state reptile is the Gila Monster (*Heloderma suspectum*), whose habitat includes Southwest Utah."

[Read More](#)



American Becomes First Female to Win Abel Prize

In another landmark moment for Women's History Month 2019, U.S. Mathematician Karen Uhlenbeck has become the first female to win the Abel Prize — which is commonly regarded as the "the Nobel Prize of Math."

[Read More](#)



Minorities Brighten Up the Future of Science and Technology



Park City High School Students Plan All-Female Hack-A-Thon

While searching for a female-only hack-a-thon to sign up for, Sela Serafin and Claire Oberg discovered that there were none available in Utah

STEM (Science, Technology, Engineering, and Mathematics) is a key field for innovations. As demand increases for researchers and engineers in Utah, the underrepresented minorities, especially those with roots in Latin America, are needed to be scientific innovators.

[Read 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](#)



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

for high school students. So, they decided to create one themselves.

Serafin and Oberg, along with the rest of the Girls in Tech Club at Park City High School, plan to host the school's first female-only hack-a-thon, which is a contest to complete a given task using computer programming. The event is set to take place at the high school on April 27, and the club is currently raising funds for the event.

[Read More](#)



University of Utah Geology Spring Open House

Join us for a night of volcanoes, fossils, rock stars, & more!

Friday, April 5 @ 6-9 pm - Free & Open to the Public.

Location: Sutton Building, 115 S. 1460 E., Salt Lake City, UT

Featured presentation @ 7 pm: "We Are Earth Walking: How chemistry links all living things to their place & environment" by Dr. Gabe Bowen. See how Geologists use drones, virtual reality, 3D printing, & augmented reality!

[More information](#)



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-

training will be held June 3-7. Registration is now open.

[Read More](#)

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 a 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
(304) 205-0724 – FAX (800) 833-0875 – www.nysf.com

Science Teacher and Leaders

The National Youth Science camp is an event where 2 High School Seniors from every state are selected to attend an all-expenses paid STEM-Based camp in West Virginia and Washington D.C. Utah has a selection committee that reviews applications and selects 2 finalist that will attend to camp. Application is based on a student essay, letters of recommendation, involvement in STEM base course and activities, student high school course selection and grades, and ACT/SAT scores.

Please pass on this opportunity to your High School teachers so they can pass it on to their High School Seniors. Attached is a flyer that can be printed and placed on classroom walls.

STEM EVENTS

1ST ANNUAL UTAH HIGH SCHOOL IT COMPETITION

April 10-11, 2019
Mountain America Expo Center
9575 South State Street, Sandy, Utah 84070



This 2-day event is open to all Utah high school students grades 9-12. Competition structure will be similar to other CTISO state competitions, and free registration grants access to the OpenWest Conference's HackCenter and Sponsor Expo being held in conjunction with the competition.

Prizes Include:
Pins & Trophies, Scholarships, Gift Cards, & Salt Lake Gaming Con Passes!

Teachers will also have the option to attend a two day training on Cybersecurity, which helps qualify for an endorsement to teach the new Cybersecurity Pathway.

Supporters Include:
Utah System of Higher Education • Utah System of Technical Colleges • Utah STEM Action Center • Oracle Academy • Banjo • Code to Success • Bottega • Dell • Utah Technology Council • Hill Air Force Base • CSforAll/CSforUtah

Team Events:

App Attack
Video Marketing

Individual Events:

Security/Linux/Network
UX/UI
Q/A Bughunt
IT Help Desk
A+ Computer Repair

Entry qualifies students for free access to the Smash Bros. After Party Tournament, hosted by Salt Lake Gaming Con. Tournament slots are limited and open only to registered IT competitors.

Register:
bit.ly/2TKPsPN

#DigitalOlympics

Volunteer:
bit.ly/2t1Tm4







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

You are invited to the Weber-Davis Regional Network's

Dream Big!

STEM Saturday

APRIL 27, 2019 • 11 AM TO 2 PM
Burch Creek Elementary
4300 Madison Ave, South Ogden, UT 84404
FREE Event

Ever wondered what it would be like to be an astronaut or work for NASA? Come join us on April 27th for our STEM Saturday and participate in activities that include:

- Star Lab & Flight Simulators
- Rocket Building
- The Stem Action Centers STEM BUS
- Galaxy Painting and much more!

Dare to Dream Big!



Usted está invitado a el evento de la Red Regional de Weber-Davis:

Sueña Grande!

Sábado de S.T.E.M.

27 de Abril de 2019 • 11 AM a 2 PM
Burch Creek Elementary
4300 Madison Ave, South Ogden, UT 84404
Admisión Gratis

¿Alguna vez te has preguntado cómo sería ser un astronauta o trabajar para la NASA? Acompañenos el 27 de Abril para nuestro evento, Sábado de STEM y participe en actividades que incluyen:

- Laboratorios de Estrellas y Simuladores de Vuelo
- Construcción de Cohetes
- STEM Bus de STEM Action Center
- Pinturas Galacticas y mucho más!

Atrévete a Soñar Grande!



UPCOMING STEM EVENTS

- April 5, 2019 - University of Utah Geology Open House - [More information](#)
- April 8, 2019 - Entrepreneurial Challenge Award finalists will be announced
- April 9, 2019 - CenturyLink STEM Excellence Award - Jazz Game - [More information](#)
- April 9, 2019 - SheTech Explorer Day - [More information](#)
- April 10 & 11, 2019 - Utah High School Information Technology Competition 2019 - [More Information](#)
- April 20, 2019 - Comcast Cares Day - [More information](#) search by "East High School"
- April 25, 2019 - Entrepreneurial Challenge Awards Ceremony
- May 17, 2019 - USU Physics Day at Lagoon - [Register here](#)
- 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](#)
- June 2019 - UVU Summer STEM Camps - [More information](#)
- June 10, 2019 - STEM Best Practices - Davis Conference Center, [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](#)
- July 22 - 26, 2019 - AccessCSforAll for teachers working with hearing-impaired - [More information](#)
- October 7 & 8, 2019 - STEM Fest 2019 - Mountain America Expo - more information to come
- 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

Potential STEM schools are in the process of setting up site visits, official awards will be made in April or May pending State Board of Education approval- well done to all of our applicants, for more information on how to become a state-designated STEM school check out our website. Intent to apply will open again in August!

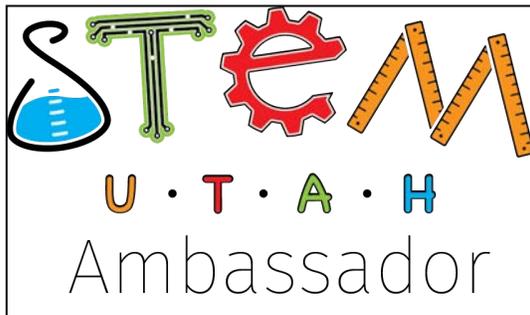
[To see a list of our STEM School Designation Awardees](#)

STEM BUS



STEM Bus registration for the 2019-2020 school year is now CLOSED! If you missed registration and would like to get on our interest list for the upcoming school year, visit us at stem.utah.gov/stembus.

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



To Xfinity & Beyond: Local Ladies Lead Comcast's Next-Gen Innovation Era

Promoting women in tech>> Studies show businesses across all industries are more profitable when women are represented in top leadership positions. STEM fields are seeing the greatest need for women in general, and especially in leadership roles.

[Read More](#)

STEM CURRICULUM IDEAS

National Parks

Can't take your class out on a trip? Borrow Materials from the National Park Service. Check out the 100+ themed kits that can be loaned to teachers and see which you can use to make your lesson an unforgettable one.

[Learn More](#)

All About Lightning

Did you know? Lightning strikes 3 million times per day worldwide.

[Get Lightning Facts](#)



Copyright © 2018 Utah STEM Action Center, All rights reserved.
Utah Governor's Office of Economic Development

Our mailing address is:
stem@utah.gov

Want to change how you receive these emails?
You can [update your preferences](#) or [unsubscribe from this list](#).