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November 2018 Newsletter

STEM EVENTS



The 4th Annual STEM Fest was held at Mountain America Expo Center on October 23rd & 24th. The event was a hands-on showcase of applied science and technology projects that spark children’s interests in STEM career opportunities available in Utah. This year’s highlights included interactive drone

and robot exhibits, live performances by educational BMX performance group StuntMasters, and local magician Paul Brewer's STEM Shows on public night, which are renowned among schools statewide for their engaging and entertaining fusion of scientific principles and comedic flair.

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STEM NEWS



#Sisterhood



Ethics, STEM, and The Modern Dr. Frankenstein

In honor of the 200th anniversary of Mary Shelley's *Frankenstein*, and to kick off Science Friday's *Frankenstein* Book Club, we've put

This is a generation of girls showing up for something bigger than themselves. Sisterhood is a digital visual album celebrating young women driving our most transformative movements — and calling on girls around the world to join them. [Check out some of the causes the sisterhood is raising their hands for.](#)

Utah Association
for Gifted Children
PRESENTS

DR. ALICIA COTABISH!
UAGC WINTER SYMPOSIUM
Engineering and Problem Based Learning

FEBRUARY 9, 2019
JORDAN DISTRICT AUXILIARY BUILDING
7905 SOUTH STATE STREET
Far North End of the Building

REGISTER AT
UAGC.ORG

Presentations:

SESSION 1: 8:30-11:30
Utilizing K-12 Engineering Activities to Promote Interdisciplinary Understanding of Science

SESSION 2: 12:30-3:30
Implementing Project/Problem-Based Learning Activities with K-8 High Ability Learners

UAGC MEMBERS PAY
\$50.00 ALL DAY
\$25.00 1/2 DAY

NON-MEMBERS
\$80.00 ALL DAY
\$40.00 1/2 DAY

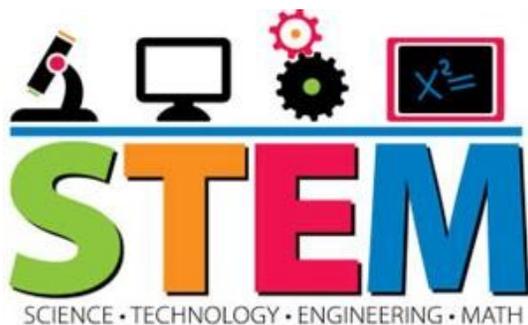
together some ideas and resources for tackling modern science and engineering ethics through the lens of the novel. Download a sample lesson plan and learn how to bring Frankenstein200 to your classroom! frankenstein.asu.edu/teachers
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Utah Teen Wins 2 Awards in National STEM Competition

LOGAN, Utah — A 14-year-old boy from Utah won two awards in a national STEM competition Tuesday. Gary Zhan from Logan received second place in the technology category from the [Broadcom MASTERS](#) competition for improving upon a way to make an alternative to synthetic blue dye using bacteria.

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STEM Allows Us to Explore the Humanities

Students who graduate with a degree in a STEM field often outmatch their peers in financial success and career outlook. Those with a bachelor degree face a slim unemployment rate at 2.7 percent. However, there are more jobless graduates with degrees in the humanities than in STEM.

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STEM Fest Aims to Build Interest in Tech Careers

Students got hands-on experiences with applied science, technology, engineering and math at the Utah STEM Action Center's fourth annual STEM Fest at the Mountain America Exposition Center in Sandy on Oct. 24, 2018. Thousands of students from schools statewide attended the event, a showcase of projects that spark interests in local STEM career opportunities.

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Hill Air Force Base Showcases STEM Job Opportunities

Science and Engineer Palace Acquire, or S&E PAQ, program participants attend a briefing about S&E careerfields in the Air Force during a base visit Sept. 20, 2018, at Hill Air Force Base, Utah. The visit included tours to showcase the various science, technology, engineering and math, or STEM, jobs available at Hill. (U.S. Air Force photo by Cynthia Griggs)

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Commentary: Every School in Utah Must Teach Computer Science

Already there are more than 5,250 open computing jobs in Utah. These open jobs represent good news for Utahns, as we are already witnessing the creation of new, high-paying jobs as a result of our growing technology ecosystem. The bad news is there aren't enough qualified workers to fill them.

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Volunteer Program Brings Microscopes, Scientists into Utah Classrooms

Some Utah schoolchildren are getting that opportunity with the help of volunteers from ARUP Laboratories through BioEYES, a national science education program offered through University of Utah (U of U) Health.

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Betsy DeVos Steers Federal Grant for 'Innovation' to STEM Programs

Programs focused on helping schools to improve instruction in science, technology, engineering, and math, or STEM, were big winners in the [latest round of the Education Innovation and Research grants](#). In fact, of the 18 winners, at least 11 appear to have some sort of STEM twist.

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UPCOMING STEM EVENTS

November 2 & 3, 2018 - Utah Afterschool Network

November 3, 2018 - Expanding Your Horizons - North Davis Junior High - [More information](#)

November 3, 2018 - Blast Off and Explore Science - Salt Lake City Public Library - [More information](#)

November 3, 2018 - KUED Reading Marathon Kick-Off - Salt Lake City Public Library - [More information](#)

November 5, 2018 - Northern Utah STEM Expo - Davis Conference Center in Layton - [More information](#)

November 21, 2018 - CenturyLink STEM Excellence Award - Jazz Game - [More information](#)

December 9, 2018 - Pluralsight Hour of Code event (Layton Elementary School) - [More information](#)
December 12, 2018 - CenturyLink STEM Excellence Award - Jazz Game - [More information](#)
January 14, 2019 - CenturyLink STEM Excellence Award - Jazz Game - [More information](#)
January 26, 2019 - Utah STEM and Charter School Expo - Mountain America Expo - [More information](#)
February 9, 2019 - CenturyLink STEM Excellence Award - Jazz Game - [More information](#)
February 23, 2019 - SLC Brain Bee (annual neuroscience competition) - [More information](#)
March 14, 2019 - CenturyLink STEM Excellence Award - Jazz Game - [More information](#)
April 9, 2019 - CenturyLink STEM Excellence Award - Jazz Game - [More information](#)

STEM PROGRAMS & GRANTS

CenturyLink STEM Excellence Award: Nominate your standout STEM Student today!

In partnership with the Utah Jazz and CenturyLink, the STEM Action Center will recognize outstanding students in STEM. Every month during the NBA season, one 6th-12th grade Utah student will receive the CenturyLink STEM Excellence Award during a Utah Jazz home game. Awardees will receive two (2) tickets to the Jazz game where they will receive on-court recognition at half-time, be featured on the scoreboard, and be given a personalized jersey. Please see official rules for details.

<https://stem.utah.gov/centurylinkstemexcellenceaward/>

November CSF Workshop for Elementary Teachers

We'll be facilitating a Computer Science Fundamentals (CSF) workshop for elementary teachers who want to learn more about implementing coding and computer science in their classrooms. The workshop is free and teachers simply need to register for their seat. The workshop will be held at West High School (241 N 300 W, Salt Lake City, UT 84103) in room 206. The workshop will be held over the course of two days: November 7th and November 15, from 4-7:00 p.m. each day. Teachers must attend both sessions for the full workshop. Teachers can register online at <https://studio.code.org/pd/workshops/5616/enroll>. Please email Erin Paulsen (erinpaulsen@utah.gov) for more information.

STEM Classroom Grants

STEM Classroom Grants will be opening again on November 5, 2018. The PreK-12 Classroom Grant is available for **Utah educators and administrators** to apply for funding to **improve student understanding of and learning experiences** in science, technology, engineering and mathematics (STEM). Awards will be granted for **innovative and creative projects in STEM subjects**. These projects should focus on **classroom-level instruction** that is unique to the needs of the students. This grant seeks proposals that are **unique and based on individual classroom needs**.

[Apply through this link starting November 5th](#)

STEM SCHOOL DESIGNATIONS

We currently have 15 schools preparing STEM School Designation application portfolios. Wish them luck! To be a reviewer in January, sign up on our web page.

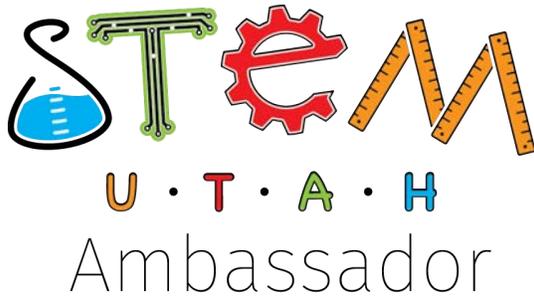
[To see a list of our STEM School Designation Awardees](#)

STEM BUS



The Utah STEM Bus reached 3,453 students at 17 different schools so far this year!
It's scheduled to visit 9 more schools this November.

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 student and educators throughout the State of Utah.

[Apply to become an ambassador](#)



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Utah Governor's Office of Economic Development

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stem@utah.gov

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