STEM SUMMIT 2019

Kauffman Foundation Conference Center
Monday, Sept. 30, 2019

WELCOME
Role of KC STEM Alliance

- Champion all things STEM!
- Understand the landscape...advocate.

- Communicate effectively – Increase STEM awareness

- Convene partners around common interests & priority areas

- Connect partners with resources & Connect learners with opportunities

- Collaborate everywhere to leverage synergies

- Celebrate best practices and successes!
KC STEM Summit 2018

Introduce STEM Learning Ecosystem

Invitation to connect & collaborate!

STEM Connect-KC

Networking Time

Highlight ecosystem initiatives
STEM Connect-KC Workshop - January

- Update on STEM Connect-KC
- Populating the calendar
- #SummerofSTEM
- Joint branding campaign & tools
- CACI Project – KC Public Library
Welcome

Ecosystem Updates

STEM Connect-KC Update

Real World Learning Initiative & Conversation

Pop-up Partnering Networking Break

Table Conversation – Connected Learning & “What’s Next?”

Ways to Connect
Participating STEM Learning Ecosystems – 84 communities
Charting a Course for Success: America’s Strategy for STEM Education (5 Year Strategic Plan)

- STEM Ecosystems website: www.stemecosystem.org; Resources section - Policy (full copy of the report)
- Develop and Enrich Strategic Partnerships
  - Foster STEM Ecosystems that unite communities
  - Increase work-based learning and training through educator-employer partnerships
  - Blend successful practices across the learning landscape

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<td>Engage Students where Disciplines Converge</td>
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<td>Build Computational Literacy</td>
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• Large growth in PLTW Launch (elementary program)
• 161 schools in KC Metro
• Flexible educator training
• Modules can be done in a variety of settings
• PLTW.org for info
KC Rising
Talent to Industry Exchange

- KCrising.com (People Strategy)
- 3 TIES
  - Global Design
  - Life Sciences
  - NEW – Skilled Trades
- Challenges – Skilled Trades
  - Growing demand for jobs in the trades
  - Negative Perception
  - Lack of Exposure
Skilled Trades TIE - Recommendations

• Increase awareness and experiences
  • K-12 pipelines – PLTW Engineering Pathway
• High School Trade Programs
• Out of School Programs

“There are numerous out-of-school opportunities to strengthen the talent pipeline for the trades, including YMCA programs that incorporate STEM experiences, 4-H Clubs, Girl Scouts and Boy Scouts, library programs, community-based maker spaces, the Academic Camp for Enrichment, National Institute of Construction Excellence and National Association for Women in Construction.”
Create a central resource for the Kansas City region to explore and discover STEM programs and opportunities.
**WHO**
Searchable directory of STEM program providers in Kansas City region

**WHAT/WHEN**
Events, classes and other timebound opportunities (scholarships, competitions)

**WHY**
E-newsletter
Social media
STEM stories
Search below to find organizations that offer STEM programming or support STEM education and workforce development in Greater Kansas City. Use the calendar to search for specific events, camps and activities.

If you are a STEM program provider, fill out this form to add your information to the directory.

**Organizations**

**Acellus – International Academy Of Science**
KANSAS CITY, MO 64153

The International Academy of Science is a nonprofit 501(c)(3) organization...

**Audience Served**
- Educators

**Focus Areas**
- Coding/Programming
- Computer Science
- Engineering
- General Science
- Robotics

**American Royal**
KANSAS CITY, MO 64102

As an organization dedicated to youth and education, the American Roy...

**Filter by**

**Opportunities Offered**
- All

**Focus Areas**
- All

**Audience Served**
- All
# Events for October 2019

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<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
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<td>Kid STEAM: Stop Motion Animation</td>
<td>Boardwalk Library</td>
<td>Block Kids Building Competition</td>
<td>Science City's Educator STEM Fest</td>
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<td>UMKC School Of Computing &amp; Engineering</td>
<td>Open House</td>
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<td>Black &amp; Veatch Explorer Post: Mechanical Engineering</td>
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<td>Science City's ScienceWise</td>
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<td>Spherons At The Station</td>
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STEM Connect-KC Calendar

Try these STEM exploration ideas

How to plan a #SummerofSTEM

Especially for Educators

Events for October 2019

EVENTS IN 2019-10
SEARCH Keyword
NEAR Location

FIND EVENTS
VIEW AS Month

FAQ
FIND STEM PROGRAM PROVIDERS
SUBMIT EVENT
STEM Connect-KC by the Numbers

- 21,000 active users
- 63,000 page views
- Average 4 pages per session

Top 3 pages
- #1 Summer Camps
- #2 Events Calendar
- #3 Directory

How to plan a #SummerofSTEM
STEM Connect-KC by the Numbers

- 239 summer camps
- 31 day-camps
- 10 fairs and festivals
- 160 youth programs
- 86 drop-in activities
- 31 competitions & showcases
- 24 opportunities especially for girls

46 Professional Development Sessions
30 Talks/Lectures
STEM Connect-KC by the Numbers

- 77 organizations
- 144 organizers have listed events
Document and celebrate successes

Highlight innovative approaches

Share best practices

Amplify stories YOU want to tell

Help identify and tell the stories that too often don’t get told

Exploring the power of code: #GirlsInTechKC
reaches nearly 400 girls during seven events

- 390 girls
- 110 volunteers
- 7 corporate locations
- 6 school districts and 1 charter school
- Event duration: 4 days
- Hands-on exploration of computational opportunities for women in tech!

Sponsors: DST, Commerce Bank, Federal Reserve Bank of Kansas City, University of Missouri-Columbia School of Computing, Engineering and Computer Science Outreach Office, Girls in Tech, St. Louis Fed, and Android.
Real World Learning Initiative

Time to Rethink Education
How Real World Learning Can Better Prepare Students for the Future of Work

Laura Evans
Business & Education
Advisor in Residence
Pop-up Partnering – Networking Edition

- Write on back of business card
  - Resource, strength or best practice
  - i.e. Mentor connections, connection to youth, program expertise, youth development, resource connection, teacher professional development, etc.
- Network and share your strength
- Place one card in the KC STEM basket on the stage
- We will share the list!
THE QUESTION

“How can we support young people in discovering and accessing learning opportunities across the city?”
How can we help build connections?
Table Conversation – “What’s Next?"

Our goal is to help young people connect with more interest-driven STEM experiences that can open pathways and opportunities.

• What is the best approach or format to help students find “What’s Next” and help them move along the continuum?

• (Explore – Engage – Immerse)

• What does that look like for different age groups?
  • Pre-K – 5th grades
  • Middle School – 6th – 8th grades
  • High School – 9th – 12th grades
Balance Between Technical Skills & Core Competencies

Common Sector Competencies

Fundamental: core competency
Advanced: leader competency

Price of admission
Competitive edge

Easier to fulfill
More difficult to fulfill
Young Professionals Survey – Essential Skills

• Young professionals (1-5 years on the job)
• Focus Groups – What skills were most important when you started your first job?
• Identified 6 Essential Skills
Young Professionals Survey – Essential Skills

- Online survey – 600+ respondents across all sectors
- How important was each skill?
- Were you prepared?
- What experiences helped you learn each skill?
  - College (in school/out-of-school/job)
  - High school (in school/out-of-school/job)

Results: November 2019
Task Force: School STEM Nights

• Question: How can ecosystem partners support School STEM Nights?
• Initial brainstorming session – Summer 2019
• Next step: Survey of School Districts/Schools (Oct. 2019)
  • Who is doing STEM Nights?
  • What are barriers?
  • What help/resources do they need?
• Next meeting: Nov. 4, 2019
Task Force: STEM Exploration Days

- Build on STEM Connect-KC Platform
- Coordinated week of STEM/STEAM Activities
- Broad geographic area
- FREE admission (increase access!)
- Umbrella marketing campaign
- Potential pilot in Summer 2020

Task Force Meeting: Nov. 4, 2019
Computer Science & Technology Education Landscape Analysis

Let us know about your programs!
EDUCATOR STEM FEST

Sunday, October 6
12pm - 3pm
INNOVATION DAY

• Educator Professional Development Day
• Hosted by Inventor’s Hall of Fame
• Nov. 2, 2019
• Guadalupe Centers High School
• FREE
• Contact: Laura Liebman, lliebman@invent.org
Experience the future of technology and gaming - November 8-10

48+ HR BYOC LAN w/ Public Hours:

**Friday Nov 8**
5 p.m - 9 p.m.

**Saturday Nov 9**
10 a.m - 9 p.m.

**Sunday Nov 10**
10 a.m - 5 p.m.

[Full Schedule]

**Future Tech and Esports Expo**

NEXTECH KC is Kansas City's inaugural Tech Expo featuring emerging and future technologies; virtual reality, artificial intelligence, robotics, computers and Esports are among the features presented for all ages. Programs for students, as well as; the general
Computer Science Education Week

December 9–13, 2019
THANK YOU!

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