

**SDSTE Technology Integration Day**  
**March 4<sup>th</sup> 2019 7:30 – 3:45**  
**@ Southeast Technical Institute in Sioux Falls**



7:30 – 8:00	<b>Registration</b>			
8:00 – 8:05	<b>Welcome by SDSTE President</b>			
8:05-8:55	<b>Heather Howle - NICERC</b>			
8:55-9:05	<b>Session Change - Break</b>			
9:05-9:55	Nicerc Introduction to the micro bit with Block	Nicerc Introduction to the micro bit with Python	Z-Space RTI	Customizing your PD with Twitter Tara Johanneson
9:55-10:05	<b>Session Change - Break</b>			
10:05-10:55	Nicerc Programming the micro bit with Block	Nicerc Programming the micro bit with Python	Breakout Edu – Jeremy Demery	Virtual Reality in the Classroom - Bytespeed
10:55 – 12:45	<b>Vendor Hall and Lunch (on your own)</b>			
12:50-1:40	<b>Keynote - The Educational Experience - Tara Johanneson</b>			
1:40-1:45	<b>Session Change - Break</b>			
1:45-2:35	Nicerc Micro bit Application Stations with Block	Nicerc Mirco bit Application Stations with Python	Virtual Scavenger Hunts Tara Johanneson	Think Boards and Rocketbooks: Whiteboards and Notebooks with a Digital Twist - Kristin Mulder
2:35 -2:40	<b>Session Change - Break</b>			
2:40-3:30	Nicerc Micro bit Application Stations with Block	Nicerc Mirco bit Application Stations with Python	The World @ Your Fingertips Tara Johanneson	Think Boards and Rocketbooks: Whiteboards and Notebooks with a Digital Twist - Kristin Mulder
3:30 – 3:45	<b>Closing</b>			

## **Keynote**

### **Heather Howle from The Cyber Innovation Center**

The Cyber Innovation Center (CIC), located in Bossier City, Louisiana, created the National Integrated Cyber Education Research Center (NICERC) to advance academic outreach and workforce development. NICERC focuses on curriculum design, professional development, and collaboration in K-12 education. Project-driven curricula creates a context for the content at every level of learning. Professional development programs for K-12 teachers enable them to motivate creativity and innovation in students through problem-solving, critical thinking, and communication. The programs offered through NICERC provide a collaborative and comprehensive solution that fosters systemic change in education.

## **The Educational Experience - Tara Johanneson**

### **Breakout Sessions**

**Nicerc - Introduction to the micro bit** – Explore the Micro bit - Instructor-led hands-on tutorial in the many applications of the micro bit.

**Programming the micro bit** – Discover the Micro bit - Participants will pick a hands-on project and learn to program the micro bit.

### **Nicerc – Micro:bit with Microsoft Block**

In this workshop from NICERC, discover how easy it is to code and make meaningful STEM projects with micro:bit! Micro: bit is a low-cost, hands-on programmable device packed with sensors and rich instructional applications. Participants will learn to code with Microsoft Block and interact with onboard sensors. Through a series of guided examples, participants explore the many applications of micro: bit. This workshop is suited for elementary and middle school teachers.

### **Nicerc – Micro:bit with Python**

Discover how easy it is to code with Python and make meaningful STEM projects with micro: bit! Micro: bit is a low-cost, hands-on programmable device packed with sensors and rich instructional applications. In this workshop from NICERC, participants will learn to code with Python and interact with onboard sensors. Participants explore the many applications of micro: bit through hands-on guided activities. This workshop is suited for middle and high school teachers.

**Nicerc - Micro bit Application Station** – Apply the Micro bit - Participants will learn to apply the micro bit to hands-on STEM lessons.

### **ByteSpeed -- Virtual Reality in the Classroom**

The real world is not flat after all, so why constrain our classrooms to experience the digital world on a flat screen? The shift from 2D to 3D immersive learning is as natural as adding color to movies and television was in the 1950's. In many ways, it is even more impactful. Virtual Reality is transforming education. What started out as something that was simply "cool" has become a way to engage learners like never before. Imagine the possibilities...you are teaching children about dinosaurs and suddenly with the help of a VR headset, there is a life-sized one in front of their eyes. Your kids can view the International Space Station while floating in space or learn about Africa by riding a canoe through a small village. The possibilities are endless and the impact on education is beyond our imagination. Join us as we show you how to bring your classroom to the cutting edge of 21st century learning.

## **RTI -- ZSpace, Virtual Reality Learning and Other Laptop Devices**

### **Jeremy Demery – Breakout EDU**

Bring your creativity, critical thinking, collaboration, and communication skills to this session as we explore the potential that BreakoutEDU has to ignite a fire for learning in the classroom. During this session, attendees will have an opportunity to participate in a hands-on breakout session challenging themselves and their peers to clear all the puzzles before time runs out!

### **Kristin Mulder - Think Boards and Rocketbooks: Whiteboards and Notebooks with a Digital Twist**

The move from paper to digital definitely has its advantages. However, there are still some situations (and some people) for which handwritten work is preferred. To bridge this divide there are Think Boards and Rocketbooks! These unique items can be used for anything that traditional whiteboards and traditional notebooks can be used for -- math practice, taking notes, creating diagrams, sketching, and on and on. The advantage, however, is that the visuals created on Think Boards and Rocketbooks can be scanned and digitally added to the cloud storage of your choice... and then the boards/books can be cleaned off to be used again and again! Join me in this session to see how Think Boards and Rocketbooks can be used by teachers and students to merge the handwritten world with the digital world.

### **Twitter: Customizing Your PD Experience - Tara Johanneson**

Henry Ford said, "Anyone who stops learning is old." As educators, lifelong learning is essential so that our lessons don't become "old". Learning is constant as we must keep up with new the textbooks, standards, theories, and technologies that are constantly changing, improving, and evolving. We cannot do it alone! That's where your Professional Learning Network is going to step in and help you stay abreast with current trends and resources to continue towards your learning goals. During this keynote session, we will be learning how to utilize Twitter to connect with all of our SDSTE peeps and the friends around world!

### **Virtual Scavenger Hunts - Tara Johanneson**

### **The World @ Your Fingertips -Tara Johanneson**