CyberMiSTS: Curriculum to Broaden Participation in Cybersecurity for Middle School Teachers and Students
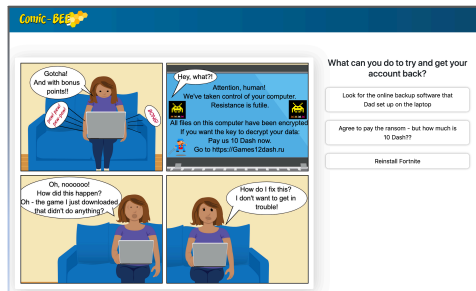
Demand for a trained cybersecurity workforce is expected to grow. To capture more student interest in the field of cybersecurity, students need to be engaged during middle school. Middle school educators often lack the knowledge and resources to teach cybersecurity to students at this age.

The CyberMiSTS project seeks to **address this gap** by providing middle school educators, especially Career and Technical Education (CTE) teachers, the knowledge, skills, and tools they need to actively engage students and expose them to cybersecurity concepts and careers.

Rather than dive deeply into the underlying math and science, the CyberMiSTS summer workshop and curriculum will focus on **key concepts and big questions** to encourage participation from the broad and diverse set of students.

Workshop participants will **learn from cybersecurity experts** about cybersecurity concepts and careers through a mix of lectures, interactive presentations, and hands-on activities. Educators will develop a cybersecurity curriculum customized for their own students, including a branching web comic using Comic-BEE software from Secure Decisions.

Branching web comic from Comic-BEE

Join us at the next CyberMiSTS workshop: July 2020 – ONLINE!

Learn more at https://www.stonybrook.edu/cybermists

Eligibility

Educators must be able to attend all 10 days of workshop.

Preference given to educators who are middle school or CTE teachers in Suffolk County (NY) schools.

Permission and support from school administrators required.

No prior cybersecurity experience required.

Computer lab is not required to implement curriculum with class.

Workshop is limited to 20 participants.

Participant Benefits

$1000 stipend and up to 57 hours of CTLE (Continuing Teacher and Leader Education) for participants who complete the workshop.

Create customized cybersecurity curriculum with hands on activities.

Access to branching web comics to engage the interest of students.

Collaboration tool to facilitate ongoing discussions and support with other CyberMiSTS educators after the workshop.

About CyberMiSTS

Meet our multi-disciplinary team:
- A cybersecurity researcher from Secure Decisions with 20 years experience managing corporate cyber security.
- Stony Brook University faculty from Education Technology.
- Stony Brook University faculty from Computer Science department.

CyberMiSTS' goal is increasing student interest in cybersecurity careers; it does not address cyberbullying.