NICE Webinar Series

NATIONAL INITIATIVE FOR CYBERSECURITY EDUCATION

AfterSchool Programs Present Opportunities to Grow the Cybersecurity Workforce

September 12, 2018

PURPOSE

WITH LESS THAN 25% OF THEIR WAKING HOURS SPENT IN SCHOOL, HOW KIDS SPEND THEIR TIME MATTERS.

In order for young people to fully realize their potential and thrive, they need opportunities and relationships beyond what they have access to at school and at home. There are millions of young people who currently lack access to these essentials.

NAA EXISTS TO INSPIRE, CONNECT, AND EQUIP PROFESSIONALS WHO MEET THIS CRITICAL NEED FOR YOUNG PEOPLE.

NATIONAL AfterSchool ASSOCIATION

INSPIRE. CONNECT. EQUIP. | NAAWEB.ORG

THE FACTS ABOUT AFTERSCHOOL

of AFTERSCHOOL PROFESSIONALS
850,000

# of KIDS IN AFTERSCHOOL
10.2MIL

$ TOTAL SPENT ($1.5K per/child) **1.5BILLION**

With less than 25% of their waking hours spent in school, how kids spend their time matters.

IN ORDER FOR YOUNG PEOPLE TO FULLY REALIZE THEIR POTENTIAL AND THRIVE, THEY NEED OPPORTUNITIES AND RELATIONSHIPS BEYOND WHAT THEY HAVE ACCESS TO AT SCHOOL AND AT HOME.

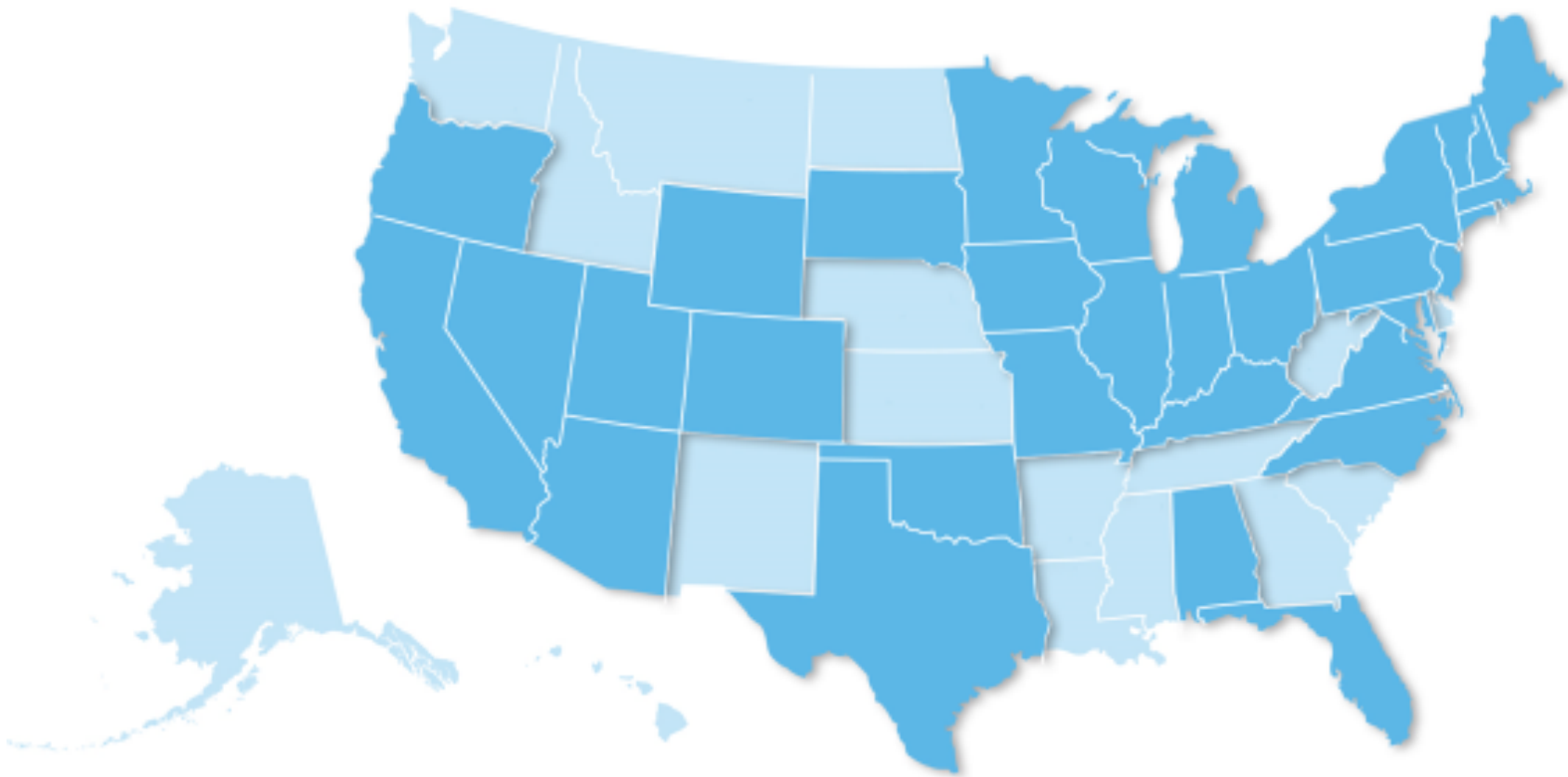
WHO IS NAA?

The only **NATIONAL MEMBERSHIP ORGANIZATION** for professionals who work with children and youth in a variety of out-of-school time settings.

Our mission is to **FOSTER DEVELOPMENT**, **PROVIDE EDUCATION** and **ENCOURAGE ADVOCACY** for the out-of-school time community.

We exist to **INSPIRE**, **CONNECT** and **EQUIP** professionals who meet this critical need for young people.

STATE AFFILIATES



CONNECT WITH THE NAA COMMUNITY

NAA REACH

MEMBERS

PRINT & DIGITAL

MAGAZINE READERS

WEBSITE

VISITORS

180,000+ AFTERSCHOOL MEMBERS!

eNEWSLETTER

READERS

SOCIAL

FOLLOWERS

CONVENTION

SHORT DISCOVERY-BASED STEM EXPERIENCES

STEM gems

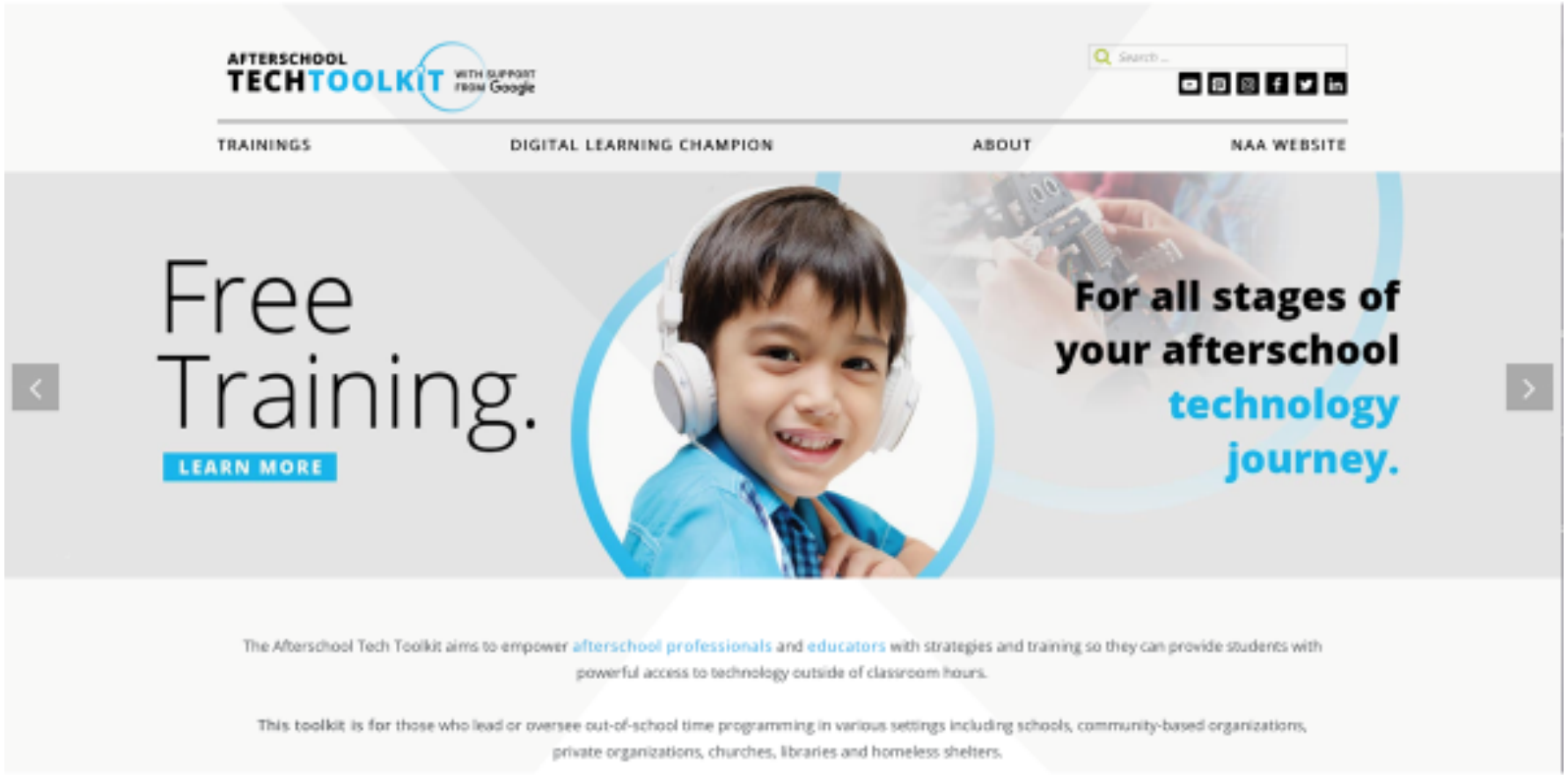
FLOWER POWER

NEXT GENERATION science standards

The Next Generation Science Standards (NGSS) are a comprehensive guide for K-12 STEM science content standards created by a partnership of 26 states, the National Research Council, the National Science Teachers Association, and the American Association for the Advancement of Science. The Framework lays out the STEM skills young people should have as they move through the K-12 school system.

- **Science and Engineering Practices:** These are essential skills needed by important scientists and engineers.
- **Disciplinary Core Ideas:** These are the core ideas that should be learned in Physical Science (PS), Life Science (LS), Earth and Space Science (ESS), and Engineering (ETS).
- **Crosscutting Concepts:** Seven key concepts that have common applications across all of science and engineering.

NAA STEM Gems are designed to integrate and support the Next Generation Science Standards. More information and all the standards can be found at **http://www.nextgenscience.org/**


AFTERSCHOOL TECHTOOLKIT WITH SUPPORT FROM Google
TRAININGS
DIGITAL LEARNING CHAMPION
ABOUT
NAA WEBSITE
Free Training.
LEARN MORE
For all stages of your afterschool technology journey.
The Afterschool Tech Toolkit aims to empower afterschool professionals and educators with strategies and training so they can provide students with powerful access to technology outside of classroom hours.
This toolkit is for those who lead or oversee out-of-school time programming in various settings including schools, community-based organizations, private organizations, churches, libraries and homeless shelters.

Q & A

NICE
NATIONAL INITIATIVE FOR CYBERSECURITY EDUCATION

girl scouts

Overview

New Cybersecurity Badges

CYBERSECURITY BADGE LAUNCH

Elementary School

DAISY: Kindergarten — 1st grade

BROWNIE: 2nd — 3rd grades

JUNIOR: 4th — 5th grades

Badges launched Summer 2018.

Middle/High School

CADETTE: 6th — 8th grades

SENIOR: 9th — 10th grades

AMBASSADOR: 11th — 12 grades

Badges will launch Summer 2019.

DAISY BADGE OVERVIEW

Cybersecurity 1: Basics

- Find out about computer parts and how computers are connected, just like you!
- Find out how computers work.
- Find out what safety and protection means.
- Discover how you're connected, just like computers are!

When you've earned this badge, you'll know how how computers work and how to stay safe online.

Cybersecurity 2: Safeguards

- Find out how to stay safe when you go online.
- Discover what makes you different from others.
- Find out what information is private.
- Discover who is in your trust circle.

When you've earned this badge, you will know what privacy is and how to protect your identity.

Cybersecurity 3: Investigator

- Find out how computers gather information and solve problems.
- Find out how to search for an answer.
- Use clues to figure out who someone is.
- Test your powers of observation.

When you've earned this badge, you'll know how to use your powers of observation to investigate questions.

BROWNIE BADGE OVERVIEW

Cybersecurity 1: Basics

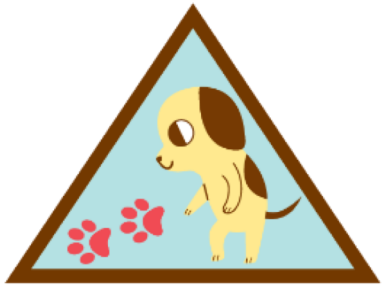
- Find out how you use technology and how you can keep your technology safe.
- Find out how you use technology.
- Discover what your technology can do.
- Find out how to create layers of security.
- Find out how to use real-life safety rules when you go online
- Find out how messages travel on the internet.

When you've earned this badge, you'll know cybersecurity basics and understand the role technology plays in your life.

Cybersecurity 2: Safeguards

- Find out how to be safe when you go online.
- Create your identity.
- Find out what information to keep private when you go online.
- Find out how to share information safely online.
- Find out why you have to be careful about who you trust online.
- Test your knowledge of online safety rules.

When you've earned this badge, you'll know what information is private and how to share information safely.



Cybersecurity 3: Investigator

- Put on your detective hat and solve cyber crimes.
- Crack a code to solve a problem.
- Investigate what's real and fake in photos.
- Find out about digital footprints.
- Investigate how a computer virus can spread.
- Explore a cyber attack.

When you've earned this badge, you'll know how to use investigative skills to spot problems in the cyber world.

JUNIOR BADGE OVERVIEW

Cybersecurity 1: Basics

- Find out how computers talk to each other.
- Find out how computers read information.
- Discover how networks work.
- Find out what protocols are and create one.
- Explore computer communication protocol.
- Find out what malware is.

When you've earned this badge, you'll know the basics of cybersecurity and how computers communicate.

Cybersecurity 2: Safeguards

- Find out how to keep your online identity safe.
- Create and protect a username.
- Create and protect a password.
- Discover how you share information and what to share.
- Find out how information online can last forever.
- Find out who is trustworthy online.

When you've earned this badge, you'll know know how to protect your online identity and stay safe online.

Cybersecurity 3: Investigator

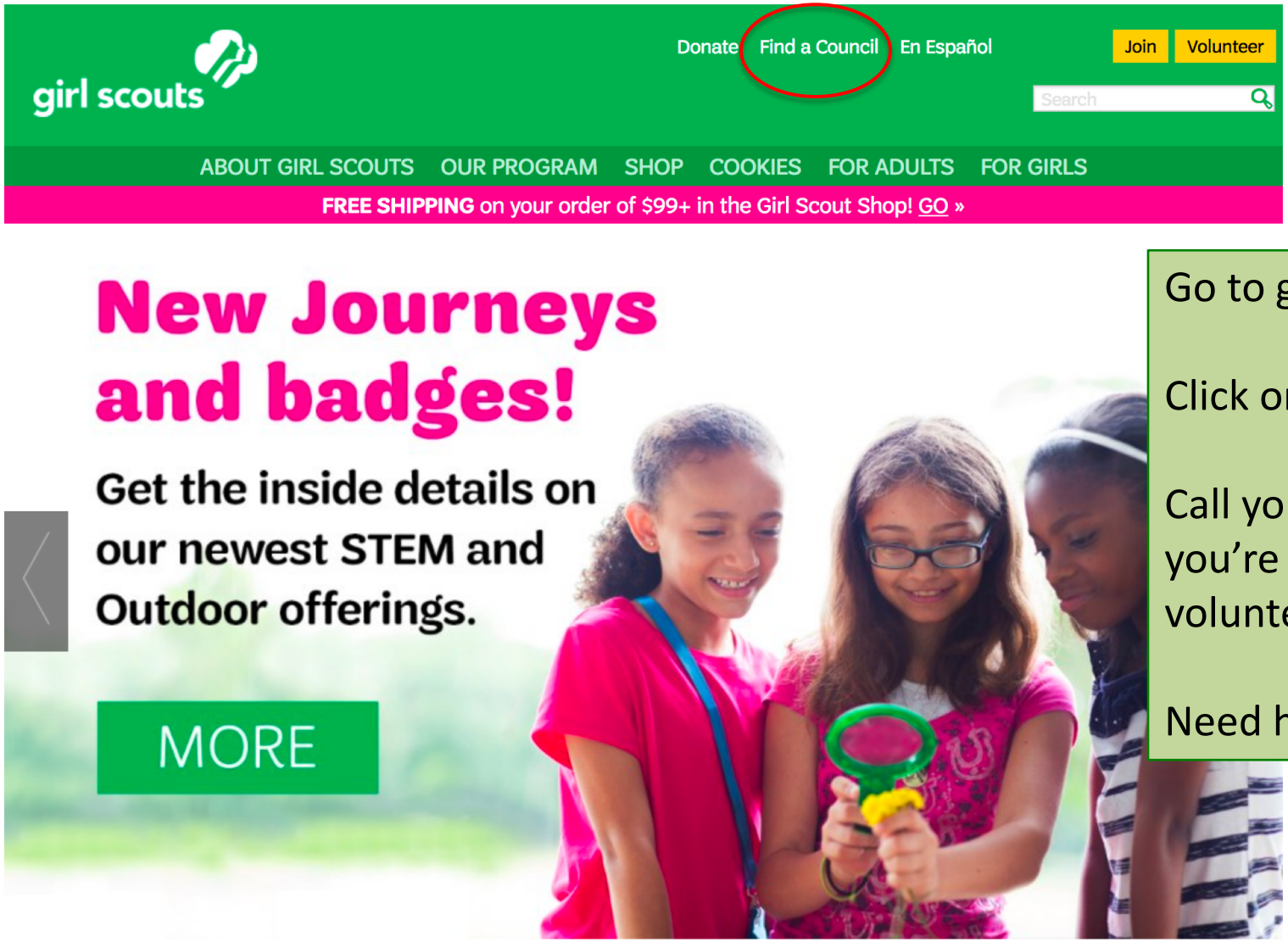
- Become a cybersecurity investigator and learn how to spot threats online.
- Create and crack a shift cipher code.
- Find out how updates can help your security.
- Explore identity theft.
- Find out what to do if your identity is stolen.
- Investigate if a message is real or fake.

When you've earned this badge, you'll know how computers use codes to communicate and how to spot cyber crime.

MIDDLE/HIGH SCHOOL BADGES

- 9 badges (3 per grade level)
- Same progression as younger girls (Basics, Safeguards, Investigator)
- Content under development
- Activities to be piloted fall 2018
- Possible topics include: encryption, ethics, hacking technique, GenCyber principles, career exploration, digital footprints, traceroute mapping, security breaches, crisis communication, etc.
- Cyber Challenge event will be piloted at 10 councils in October 2019

HOW YOU CAN SUPPORT GIRLS



Go to gsusa.org

Click on Find a Council.

Call your local council and let them know you're interested in being an episodic volunteer with a focus on cybersecurity.

Need help? E-mail STEM@girlscouts.org.

Q & A


BOYS & GIRLS CLUBS
OF GEORGIA

Our Mission

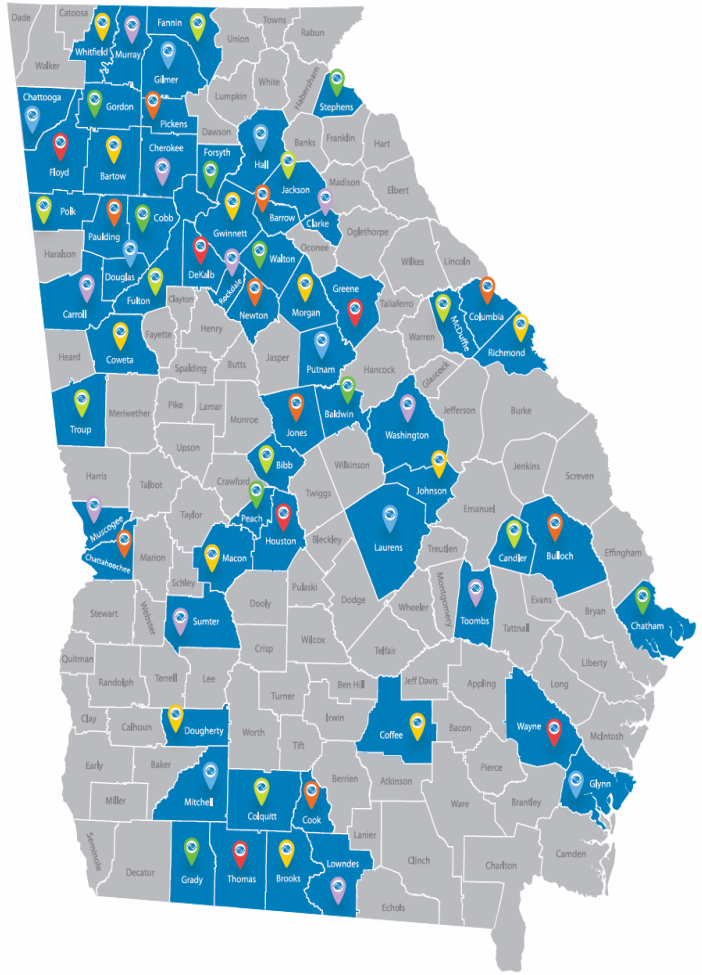
- To Inspire and Enable All Young People, Especially Those Who Need Us Most, To Become Caring, Productive and Responsible Citizens.

Our **Great Futures** Vision

- We want every child to **graduate** from high school, **prepared for post secondary success** with a **plan** for the future, **good character and citizenship**, and the tools to live a **healthy lifestyle**.

Our Reach

- 78,000 youth served
- 133 Clubs
- 63 Counties



Our Work

- Education & Workforce Development
- Career Readiness & Leadership Development
- Health & Wellness

Our Work

- Education & Workforce Development
  - Power Hour
  - Diplomas2 Degrees
  - STEM
- Career Readiness & Leadership Development
  - Career Launch
  - Jr. Staff
  - Torch Club/KeyStone/Youth of the Year
- Health & Wellness
  - Triple Play
  - Smart Moves

Inspiring the Next Generation of STEM Leaders

NATIONAL ENGAGEMENT:

- 2.75M kids engaged in STEM.
- STEM programming at all 4,300 Clubs.

STATE ENGAGEMENT:

- 29,000 kids engaged in STEM programming.
- STEM programming at all 133 Clubs.

Inspiring the Next Generation of STEM Leaders

GEORGIA BGC PROGRAMS:

- Annual Georgia STEM Competition
- Robotics
  - Northwest Georgia
  - CSRA
  - Bulloch County
  - Columbus
- Coding
  - Metro Atlanta
  - CSRA

IMPACT

NATIONAL:

2016 BGCA Graduating Class:

- Boys 57% more interested in STEM careers, compared to 44% peers.
- Girls 50% more interested in STEM careers, compared to 16% peers.

STATE ENGAGEMENT:

- 96% high school graduation.
- 89% to pursue post-secondary opportunities.
- 66% GABGC kids express interest in STEM career;
- 77% GABGC kids efficient in STEM subjects.

Q & A

Thank You for Joining Us!

Upcoming Webinar: "The Underserved Cybersecurity Workforce: Securely Provisioning our Future "

When: **Wednesday, October 10, 2018 at 2:00pm – 3:00pm EST**

Register: **https://nist-nice.adobeconnect.com/webinar-oct2018/event/registration.html**

nist.gov/nice/webinars

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