

Are you Tech Savvy?

You will be after a day of hands-on experience with

Science, Technology, Engineering, Mathematics

Three hands-on STEM workshops plus Savvy Skills

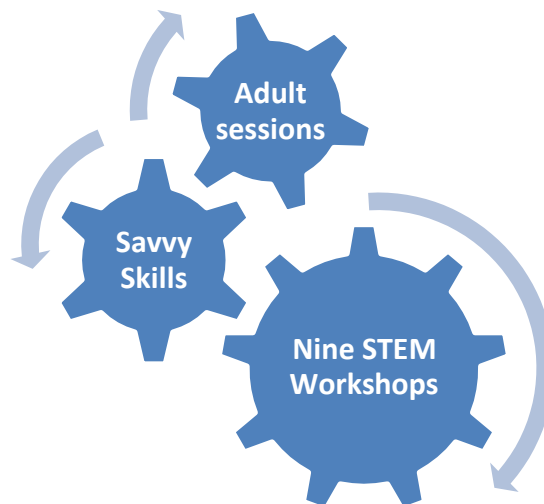


Who: Girls in grades 6 – 9
+
Parents/Guardians

Where: Sullivan Science Building
University of North Carolina
Greensboro, NC

When: Saturday, April 1, 2017
7:45 am – 3:30 pm

Cost: \$5 for single student
\$ 7.50 for a student and
Parent/Guardian
*Includes: breakfast, lunch, t-
shirt, program brochure, door
prizes*



Questions: triadtechsavvy@gmail.com

[Registration Opening February 1, 2017](#)



TechSavvy
A program of AAUW



Greensboro (NC) Branch



THE UNIVERSITY of NORTH CAROLINA
GREENSBORO



Guilford
County Schools

Website & Registration:

<http://greensboro-nc.aauw.net/tts>

We thank all our sponsors. Complete list of Sponsors is on our website.

GIRLS IN 6TH THROUGH 9TH GRADES
AT TRIAD TECH SAVVY ON SATURDAY, APRIL 1ST YOU GET TO PICK THREE
7:45 am – 3:30 pm at the Sullivan Science Building UNCG Campus

Internet of Things	Hands on with Cloudbits, a type of LittleBits circuit, will be used to get participants started on their own Internet of Things project! Participants will learn the concept of virtual reality systems by using the Bobo VR Headset. We'll discuss how this up-and-coming technology can be used in variety of applications to solve social issues.
Do You Hear What I Hear?	Come to our interactive music and science classroom museum to explore the anatomy of the ear, how sound waves travel, and how our minds process music. Participants will be placed in teams and will navigate three music and science learning stations to uncover the mystery of sound and the inner workings of our mind.
Robotics	Our session will introduce students to what might be involved in becoming a roboticist. Students will be put into small groups and directed to work on group activity using LEGO Mindstorm robots. Each group will work together to measure a course and then translate that into something their robot can read to maneuver it through the course in a competition-type based challenge.
Chemistry of Polymers	This hands-on workshop will give students the opportunity to make and test polymers. Students will work in groups of two in a chemistry lab and synthesize polymers from different starting materials
Preparing for the August 21 Total Solar Eclipse	North Carolina will experience a total solar eclipse on August 21, 2017. Girls will find the exact time of the eclipse in the Greensboro area and they will construct a safe observing projector. Working in teams they will make a community plan and prepare an observation record sheet.
Computer Animation	Using "Scratch" programmable animation software: 1) Students will learn how to code or program while playing games 2) Students will understand the basics of programming language through visually interactive medium 3) Students will create their own program that performs a specific function.
The Nanobus	The Nano Bus from the Joint School of Nanoscience and Nanoengineering will deliver several fun hands-on science and engineering demonstrations to Tech Savvy. Girls will work in small groups to explore the science of nanotechnology. Activities will include: Pendulum Wave Generator demonstration and Lenz's Law using a magnet which falls more slowly in a copper pipe than outside the pipe
Strawberry DNA	During this workshop, you will complete an experiment to isolate, extract, and observe DNA from a strawberry. DNA contains the biological make-up that gives each of us our uniqueness. It was Swiss biochemist Frederich Miescher who first observed DNA.
Climate Change	Participants will explore some of the mechanisms and consequences of the warming of ocean water and sea ice. They will be challenged to understand measurements of temperature and its effect on melting ice. Students will discuss the interconnectedness of the physical world and the social climate, and how individual decisions affect the future of our planet and its inhabitants.
Clinical Laboratory	The Clinical Laboratory Science Department at Winston-Salem State University is bringing its Youth Exploring Health Sciences (YEHS!) program to Tech Savvy. The hands-on activities are designed to introduce health science fields. Come and experience the opportunities.
Nanoscience and Nanoengineering	The "Exploring at the Nanoscale" lesson shows how nanotechnology has impacted the world, and how engineers have to consider the ramifications of working at a very small scale. Students work in teams and explore the increased surface area exposed as items are made smaller and smaller. Students examine and measure large blocks of tofu or gelatin, determining the surface area. They work as an engineering team to determine a new application of nanotechnology for a product or process of their choice. Teams present concepts and proposals to a group of potential research funders (the class) and each then vote for the proposal with the most potential.
Cosmetics Chemistry	Cosmetics companies employ teams of specialized scientists to develop and test each new line of makeup, perfume, lotion, or soap. This science project lets students be the cosmetics scientist, by creating their own lip balm right in your kitchen using a short list of ingredients, then test it, and follow up with some creative cosmetics science of your own!

Website & Registration: <http://greensboro-nc.aauw.net/tts> **Questions:** triadtechsavvy@gmail.com
\$5 for each student, \$2.50 for accompanying parent or guardian. Includes: breakfast, lunch, t-shirt, program brochure, and door prizes. Parking free in the Mclver Garage off West Market on Mclver St.
Special rates for groups accompanied by teacher.

Triad Tech Savvy 2017

Saturday, April 1ST

7:45 am – 3:30 pm at the Sullivan Science Building UNCG Campus

GIRLS IN 6TH THROUGH 9TH GRADES

ALL WILL PARTICIPATE IN ONE OF THESE SAVVY SKILLS SESSIONS

LEADERSHIP 101

Members of the Greensboro Youth Council will challenge participants thinking on what it means to lead – in the classroom, in the community, and with your friends.

CYBER SECURITY

Coming off hosting the 2016 Women in Cyber Security, Forsyth Technical Community College brings that unique experience to *Tech Savvy*. Girls will gain experience and insight into safety on the world wide web and knowledge of careers in cyber security.

TEAM BUILDING

UNCG's Maker Space is part of the Maker Movement, which can inspire more young people to excel in STEM (science, technology, engineering and math) subjects, connect their learning to real-world, personally meaningful problems, and reverse the decline in student engagement. Team building results in inclusion and unleashes creativity.

SAY YES TO EDUCATION

After an overview of Say Yes to Education for Guilford County, girls will work in groups to analyze case studies of award scenarios. Prizes will be given!

LEAD GIRLS OF NC

LEAD Girls of NC is dedicated to providing the tools and resources that preteen girls must have to become productive citizens and active leaders in their community. LEAD encourages and mentors girls to aspire and achieve greatness academically, emotionally and creatively.

INTERVIEWING SKILLS

Participants will learn what it takes to prepare for and conduct news interviews from members of the Triad Association of Black Journalists. Experience will be gained both behind and in front of the camera.

CHICKS, CHAT, AND CHANGE

This learning experience will help girls create a flexible and reliable budget that they will utilize moving forward. You will learn how to set financial goals, how to establish time frames for short and long terms goals, and how to track income and expenses so that you become accustomed to reviewing and adjusting your budget.

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- 7:45 to 8:30** Check-in; parents will receive a complimentary light snack
- 8:30 to 9:00** Opening plenary session; Welcome – Dr. Lakshmi Iyer; Moderator – Dawn Fluorizard; Key note speaker - Dr. Iris Wagstaff
- 9:10 to 10:10** **Cyber Security – Linda Cohen**
Coming off hosting the 2016 Women in Cyber Security, Forsyth Technical Community College brings that unique experience to *Tech Savvy*. Parents will gain experience and insight into safety on the World Wide Web and knowledge of careers in cyber security.
- 10:20 to 10:30** Spartan Chariot transportation to Jackson Library
- 10:45 to 11:55** Information Literacy Skills and the Resources of the UNCG Jackson Library – Dr. Keith Gorman
Parents will divide into two groups. One group will tour the library, while the second group will proceed to room 177 for a hands-on computer exercise.
The tour will include staff members stationed to explain key features and resources, with an emphasis on technology used in modern public libraries, especially the Digital Media Center. The session in room 177 will empower parents to understand accessing available and reliable online resources while at Jackson Library. Resources presented will include NCWise and NCLive. Parents will learn to identify reliable sources of information and to filter out fake news or myths, perhaps from social media or popular websites. This session will address bridging the digital divide and overcoming the “pay wall”
- 12:00 to 12:45** **Lunch in the UNCG Dining Hall**
- 1:00** Return to Sullivan Room 101
- 1:15 to 2:15** Cognitive Development and Learning Styles:
Dr. Thanujeni (Jeni) Pathman
Getting a view into your daughter’s mind: Tips for navigating social, cognitive, and emotional changes during late childhood and adolescence
- 2:15 to 2:45** Q&A, post event survey
- 3:00 to 3:30** Closing session, Speaker Christi Whitworth, Viewing the August 21 Eclipse