

Tech Savvy Girls & STEM Guys

A STEAM-Y Experience
for YOUR Summer



Open to children ages
9 to 14
AND the adults in
their lives!

Register by July 9

Saturday
July 19, 2025

9:30AM – 3:45PM
Tougaloo College



Frequently Asked Questions...

Who is invited? Students ages 9 to 14 are invited. Adults are also invited. Students may already have an interest in science, math, or technology; or, this may be a great way to open up new possibilities for a student. There is only one criterion: Students should be interested in learning & ready to have fun for the day. There are also specially planned activities for parents, teachers, counselors, youth leaders, and other adults.

Important Safety Note: Attendees may not wander around campus; attendees are restricted solely to buildings where assigned conference activities are in progress and must follow the directions of all volunteer staff and workshop leaders.

Why STEM, and what's the A in STEAM? Science, Technology, Engineering, and Math (STEM) careers represent some of the jobs that are growing most rapidly, have high salary-potential, and offer interesting opportunity to do good in the world. Even so, The Pew Research Center noted that women are underrepresented across many STEM fields (except healthcare), especially in computer jobs and engineering. Black and Hispanic workers are also underrepresented in the STEM workforce. More recently, along with the need to illuminate STEM careers, there is an increased focus finding links between these exciting career fields and the arts... STEAM!

How did Tech Savvy get started? The original Tech Savvy in Buffalo, New York is 20 years old! It was founded by Tamara Brown, who grew up in Mississippi, who believes that STEM is FABULOUS! Tamara and many of her friends in the AAUW Buffalo Branch, our sponsor Linde (formerly Praxair), and other individuals and groups believe that everyone should have the opportunity to choose from among many exciting careers so that you can change the world!

We love, love, love our sponsors! Thanks to Linde for providing major support to fund Tech Savvy to make the event possible! Thanks also to Tougaloo College for donating the facilities and helping extend this conference to our STEM Guys!

I'm a student. Why should I attend? Math and science can be fun and interesting! This is a great chance to meet professionals—who in many ways are a lot like you—who can share information on their careers.

Also, you'll meet other young peers who share your desire to change the world! Don't you want to change the world for good? At the end of the day, you'll have knowledge and special prizes that will help you on your road to purpose!

I'm a student. How many workshops will I take? Will I attend my favorite workshop? You will participate in two (2) STEM workshops. We also have a special event this year: Add a little "A" to STEM and you get STEAM! In our STEAM-Y project, you'll combine art and science. When you register, give us the numbers of your top five (5) choices for STEM workshops. (We think all workshops may help you discover careers that you may not have considered before!) You'll be assigned to at least one of your favorites. Be sure to indicate all choices and send your registration in before the due date. Workshops are assigned in order of registration. Please note that students must attend workshops at the times assigned—no switching. In order to be fair to all, it is not possible to accommodate entire groups in the same workshop at the same timeslot. Remember, workshops are a great way to meet new friends!

I'm a parent, grandparent, or guardian. I'm a teacher, counselor, youth leader, or other interested adult. Why should I attend? The world needs more people with STEM skills. While we all know that women definitely can succeed in technology, workshops will there is a persistent gap of participation and achievement in STEM. Society often sends messages of that discourage students from underserved backgrounds to pursue math and science. You already know that it takes a village... Join us for the day. Besides the opportunity to discuss the issue with other professionals and parents, you'll leave with valuable research, new perspective, and resources to help you promote equitable education for all students. The adult sessions offer the chance to discuss these issues, but more importantly, we'll provide practical information so that you leave the day with more tools to help your child succeed! (Please note that adults do not attend student workshops. Student workshops are designed to provide a learning opportunity for small groups.) Note that adults are not required to attend, but you are encouraged to register and take part in the sessions especially curated for adults! And, by the way: There are also fabulous prizes for adults!

How do I register or get more information? There are two ways to provide registration information. You may complete the registration form on-line at stemfabulous.org. Alternately, you may register by completing the form in this brochure, detach, and mail. Either way, you **must mail** in either your email from your online registration or the hand-completed form along with the \$10 fee to the address listed. If you register online, you must send the form and payment via mail within 3 days of your registration or your registration may be cancelled. Online registration is preferred in order to increase accuracy of information, and those who register online will be eligible for a special prize drawing. **We expect to reach capacity. Please register early. For info before the week of the conference, please call 601-209-6736. Before July 16, you can also email us at letsconnect@stemfabulous.org. Visit the website at stemfabulous.org to get more info.**

Meet our Keynote Speaker Gitanjali Rao



Gitanjali Rao is an American inventor, author, social activist, and a STEM student and advocate. Anjali won the *Discovery Education 3M Young Scientist Challenge* in 2017 and was recognized on *Forbes 30 Under 30* for her innovations. She was named *Time's Top Young Innovator of 2020* for her innovations and "innovation workshops," which she conducts across the globe; She was also featured on the cover of *Time*, becoming their first "Kid of the Year."

Her first invention, inspired by learning about the Flint Water Crisis at the age of ten, was a device called Tethys which was based on carbon nanotubes that could send water quality information via Bluetooth technology. In 2021, Rao published her first book, *Young Inventor's Guide to STEM*, which elaborates on her Five Steps to Problem-Solving for Students, Educators, and Parents. Sections of the book have been adapted for school use in Kenya and Uganda.

In 2023, Rao enrolled at MIT and gained her pilot's license. She is working on her second book, *A Young Innovators Guide to Planning for Success*.

Welcome back, Anjali!

PAPER REGISTRATION FORM for Students and Adults **Register by July 9, 2025**

DETACH AND RETURN THIS PORTION ONLY... RETAIN THE REST FOR YOUR RECORDS

Please detach this page and mail to the address below. You may also find this form online.

Complete either by hand or online and mail with \$10 fee. NOTE: Parent/Guardian signature is required if using this form; please print clearly. Include a check or money order for \$10 per attendee (each adult and each student) payable to "Tougaloo College - Tech Savvy".

Mail to: Tougaloo College Attn: Demetria White

500 West County Line Road, Tougaloo, MS 39174

Name _____

Student **Parent/ Guardian** **Educator/Interested Adult**

If part of Group, list Group: _____

If **Student**, list Age: _____

Student Shirt Size (S, M, L, XL, 2XL): _____

Street / PO Box _____

City _____

Email _____

Phone _____

Physical Accessibility Needs: _____

Please give us details if you are a vegetarian, have dietary needs, or have any allergies: _____

What career are you considering? _____

How did you hear about conference? _____

Student Workshop Choices: (Indicate five workshop #s.) _____

Students attending this conference must be mature enough to follow instructions and directions provided by signs and guides on campus. Students must attend all events and remain on campus from 9:30 a.m. until the conference ends at approximately 4:00 p.m. Note: A photographer may take pictures of conference attendees. These photos may be used on our website, in the news, or in other publications. By registering for this conference, you have given us permission to use and share your and/or your child's name and/or photos.

Please note that you may also receive limited information regarding other programs that may be of interest and requesting your participation in surveys. We may also pass along information to you about similar programs from local colleges/organizations; however, we will not share any of your personal contact information with others. Please check here if you do not want to receive this information.

I and/or my child will attend the STEM Conference planned for July 19, 2025, at Tougaloo College. If my child is attending, I grant permission for his/her attendance. I give permission for myself and/or my child to receive emergency medical care, if needed, while at the conference. I understand that conference organizers and sponsors are not responsible and are not liable for loss of, damage to, or injury to any person, automobile, or any possessions while attending the conference. By signing, I assume responsibility for my own and my child's safety.

Adult - Parent/Guardian Signature _____

SIGNATURE REQUIRED FOR ALL REGISTRATIONS

Tech Savvy Girls & STEM Guys –

Our Future's So Bright... We have to wear shades!

Saturday, July 19, 2025 at Tougaloo College – 9:30 AM check-in – 3:45 end

Your \$10 registration fee includes workshops, materials, books, student shirt, light breakfast, and lunch!

Student Workshops

Each student will participate in two of the ten numbered workshops below in addition to other conference activities. By indicating your five top choices on your registration form, you're guaranteed to be placed in at least one of your favorite workshops! **Allergy alert: Many workshops have materials or edibles to use and take away. Please pay attention to all allergy concerns, and if you are in doubt, please take items home to review with your parent/guardian.**

Students will also participate in the STEAM-Y art project, where you'll combine art and science, and enjoy a session with keynote speaker Gitanjali Rao!

Workshop 1 - Gingerbread Geometry. Math can be so delicious. Build a house or hummer using geometry – one of architects' and builders' best tools!

Workshop 2 - Roaring Rockets. Ready to lift off! Let's see whose rocket can really fly in this fizzy trip in propulsion!

Workshop 3 - Multiplying Money! In this fun game of finance, let's see how your career stacks up to \$\$\$ – and how some savvy skills can help your money multiply!

Workshop 4 - It's good to have many friends. Molecules need friends too! Polymers are used everywhere, from medical devices, paints, glues – and even food. Let's explore the chemistry behind how molecules get bigger and bigger to do big things, from a polymer-containing favorite – gummydrops.

Workshop 5 - Cybersmart! What would life be like without your smartphone, tablet, and internet? In this gaming session, learn how computer scientists keep you safe from risks across the internet – and how you can make the world safer as you choose to use devices.

Workshop 6 - Ready, Right, Robot... It's an emergency, and you need to help resolve fast. Can your team help build a robot for the best solution – and in the best, right way?

Workshop 7 - Color me... Smarter! Crayons aren't the only things that are colorful. Learn how color can help make doctors, products, and all of us smarter.

Workshop 8 - Smiffy! Smell that? It's probably a little chemistry. Learn how chemists create the perfect scent as you make a gift for your mom, dad, or other special adult. **Workshop 9 - Dentist for a Day...** Smile! Learn the science behind keeping that brilliant and healthy smile.

Workshop 10 - Let's Give a Hand! Around the world, many people need medical help. By making your own robotic hand, you'll peek into how biomedical engineers and physicians (& some kids) make prosthetics to give people a new way to work and play!

Adult Sessions

Parents, grandparents, educators, and other adults in children's lives are invited to participate in three adult chats. By the end of the day, we hope that you will see new pathways for your child in STEM – see new ways to foster lifelong curiosity and success. The three planned chats include: **Good to GROW by Stacie LeSure Gregory, PhD;** **Extraordinary STEM Inventions to Solve Everyday Challenges by Gitanjali Rao, and** **Partnership for Success: Real Strategies that work for Families by Nathaniel Barnswell.**

Adults will enjoy a special lunch session on Decoding AI with Amanda Jackson, a campus tour (weather permitting), and other chances to explore!