

# The new face and culture of STEM innovation



Self-  
eSTEM

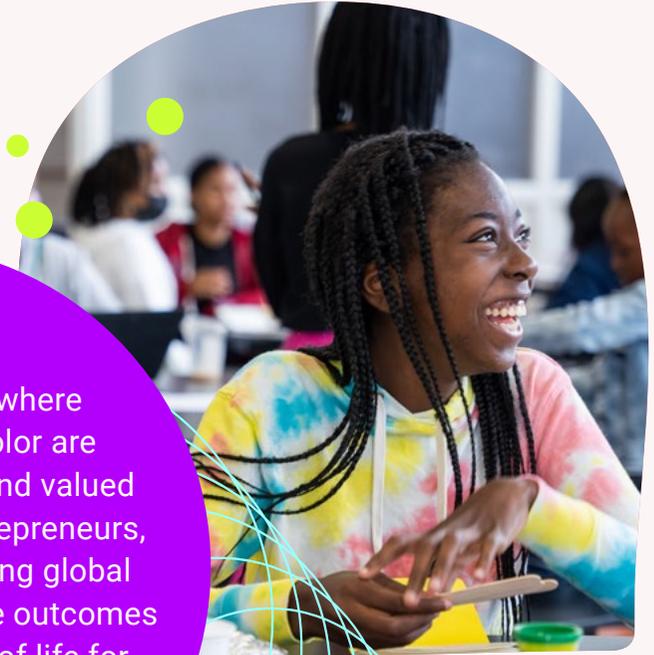


# The Big Opportunity

STEM offers young women and girls the opportunity for economic sustainability as careers in these fields **pay 2 - 4 times higher** than the U.S. average national wage. **BIPOC women in STEM are grossly underrepresented**, and those that begin a career path in STEM are often pushed out before they can thrive.

We believe that if we can inspire **BIPOC girls to pursue careers in STEM** and support them throughout their career journeys, we can transform social and economic conditions for everyone, especially those who experience severe inequities within our community.

We envision a world where girls and women of color are recognized, respected, and valued as STEM innovators, entrepreneurs, and changemakers, driving global solutions that enhance life outcomes and improve the quality of life for their families and communities.



Since 2014, Self-eSTEM has developed the brilliance & self-esteem of 1,200+ girls through activities in our free Early STEM Immersion Program.

Our mission is to ignite pride, purpose, and possibility among BIPOC women and girls through STEM by providing:

- ★ culturally relevant education,
- ★ training & mentorship,
- ★ and access to a network of support to fuel their personal and professional development throughout the talent pipeline.



## Summer Camp

Our SE Summer Camp is a hands-on week-long learning journey (~40 hours of student instruction) that offers BIPOC students (all genders, ages 7-17) culturally responsive STEM education and social entrepreneurship training through collaborative project-based activities.

### Goal:

Spark STEM curiosity and growth mindset by igniting problem solving skills.

### Key Learning Objectives:

- ★ Problem Analysis & Definition
- ★ Increase creative problem-solving
- ★ Increase the ability to collaborate with others
- ★ Make strategic use of digital media and digital/tech skills

### Key Activities:

- ★ Research & Iterative Design
- ★ Group Work
- ★ Prototyping
- ★ Group Presentations

### Cost:

\$15,000 (~\$600 per innovator)

## Robotics Afterschool Program

Our SE Robotics Afterschool Program is a hands-on 12-week learning journey designed to enable BIPOC students (all genders, ages 7-17) to develop skills in science, coding and engineering (~75 hours of student instruction).

### Goal:

Inspire young people to be science and technology leaders.

### Key Learning Objectives:

- ★ Engineering Design Principles
- ★ Computer Programming Skills
- ★ Fundamentals of Autonomous Vehicles

### Key Activities:

- ★ Computer Programming/Coding
- ★ Group Work
- ★ Group Demonstrations

### Cost:

\$25,000 (~\$1,500 per innovator)

Virtual formats discounted by 20%



# Our Culturally Thriving Learning Model™

is a multi-faceted approach that fosters a growth mindset and resilience among BIPOC women so they can thrive in the STEM workforce and address the innovation gap.

Our STEM curriculum is designed to be culturally relevant to BIPOC girls, which distinguishes us from other STEM education programs.



1

Starts early



2

Wrap-around program support model



3

Culturally relevant pedagogy



4

Focuses on self-esteem and wellness



5

Leverages the power of community

# What Youth And Parents Have To Say About Self-eSTEM

"I really enjoy the robotics program because it challenges me to think more than my school does. I really like working with my partner doing the coding and mission challenges and seeing my code telling my robot what to do."

- Llyahrose, Elementary School Student

"The Self-eSTEM Program is truly outstanding. The hands-on activities have been engaging for my daughters... This is what girls need to hear and see to have the courage to pursue STEM careers. As a result of the program, my girls are all now interested in exploring STEM further. My 11th grade daughter wants to take an AP Comp Science class now. Such a blessing. Thank you."

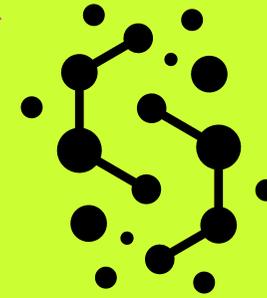
- Dawn, Parent

"I was in shock that my baby said she wanted to be a scientist immediately after attending your summer camp. It made me happy. I now realize the importance of exposing and encouraging our girls to be involved in the world of stem. Thank you Self-eSTEM. We can't wait to continue with your program."

- Kevin, Parent

"Before this camp, I knew nothing about STEM. But as I got into it, it was really interesting. I like that they show how you can tie a lot of things to STEM. It is not just basic math and science. You can do fashion, art, cooking, that all comes down to STEM. I have been coming to Self-eSTEM since I was seven years old."

- Nalin, High School Student



# Self-eSTEM

For more information on our programs and partnerships, contact Adamaka Ajaelo, Executive Director at [aajaelo@selfestem.org](mailto:aajaelo@selfestem.org)

**Self-eSTEM is a federal tax exempt 501(c)(3) organization.**  
Federal Tax ID# 47-2316798

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