



STREAMInnovations™

Science, Technology, Reading, Engineering, Arts, and Mathematics





STREAMInnovations™

What is **STREAM** INNOVATIONS?

STREAM Innovations is a 501 (c) (3) nonprofit organization that evolved from STEM, which stands for Science, Technology, Engineering, and Mathematics. The acronym was introduced in 2001 by the National Science Foundation and has evolved since. STEAM became widely accepted, as it incorporated the element of Art, while still focusing on the four disciplines.

STREAM Innovations introduced Reading as an additional discipline to the acronym after research indicates reading plays an essential role in providing a multidisciplinary approach. STREAM Innovations was incorporated on May 8, 2015.

We promote collaborative innovation to engage students in their desired STREAM discipline(s) and innovate solutions to real-world problems in their communities.

We believe that connecting Innovators to Science, Technology, Reading, Engineering, Arts, and Mathematics (STREAM) will drive critical thinking, promote healthy competitiveness, and cultivate professionals needed to address root causes of community inequities using innovative solutions.

The demographics of Innovators reflect under-served and under-represented communities – 98% African American and 2% White or Hispanic.

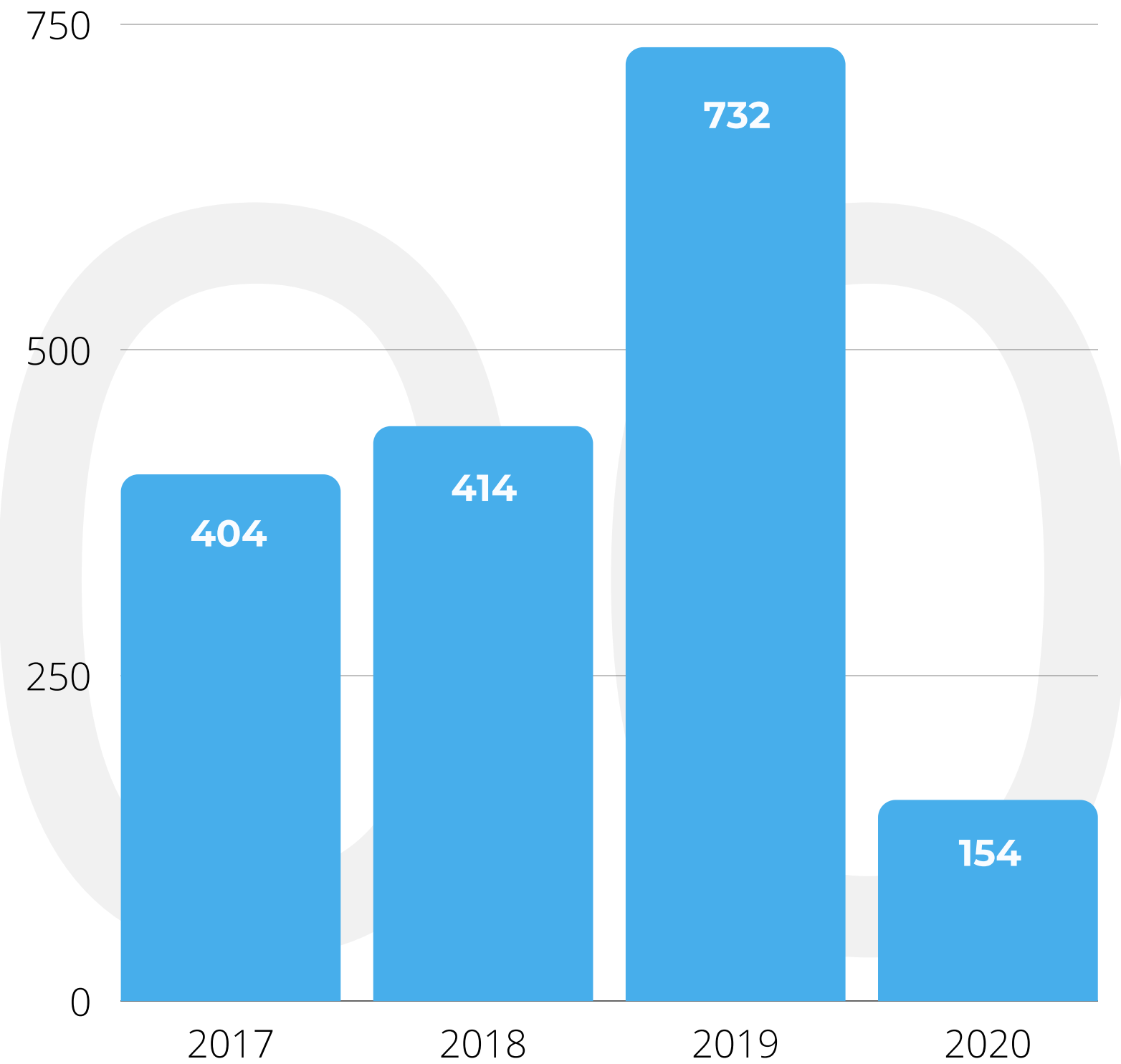


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STREAM Innovations has impacted more than 1,700 innovators since its inception.

"Alabama is a national leader in STEM (science, technology, engineering and mathematics) fields such as aerospace, biotechnology, biomedicine, cybersecurity and advanced manufacturing. The state is projected to need more than 850,000 STEM-related occupations by 2026, but may struggle to fill these positions with qualified candidates. Academically, Alabama's students have fallen behind in math and science proficiency. Significant educator shortages make it difficult to recruit, train and retain well qualified educators equipped in the methods of a modern STEM classroom, including project-based learning, inquiry and problem solving. Our future workforce is largely unaware of Alabama's STEM careers and the pathways to obtain them." Alabama Roadmap to Success, Developed by the Governor's Advisory Council for Excellence in STEM November 2019."


NUMBER OF INNOVATORS



PROGRAM YEAR

INNOVATORS

CORE PROGRAMS



STREAM Innovations is not only opening the minds of Innovators into fields they have had little to no exposure to, but we are very aware of the need of a prepared workforce for the future.

Check Out STREAM

Grades 3-6

Held at local libraries, this program is designed to foster a love for reading, while enjoying hands-on activities that increase knowledge pertinent to various STREAM topics.

STREAM Saturdays

Grades 3-6

Held at local community centers, this program provides hours of hands-on activities. Innovators also receive STREAM Swag to take home to stimulate continued learning in a STREAM discipline.

STREAM Coding Bootcamp

Grades 7-12

Designed as a cohort program that allows Innovators to learn Web Design, App Development, and Computer Repair. Innovators participate in workshops about Financial Literacy, Leadership Development, and Entrepreneurship. They also visit local tech companies to for exposure to careers in technology.

STREAM in the Community

STREAM Innovations participates in various community affairs to support promote STEM exposure and provide educational activities at community events.

STREAM in Action

Grades 3-6

An after-school program which serves as an enrichment with hands-on activities across STREAM disciplines of STREAM.

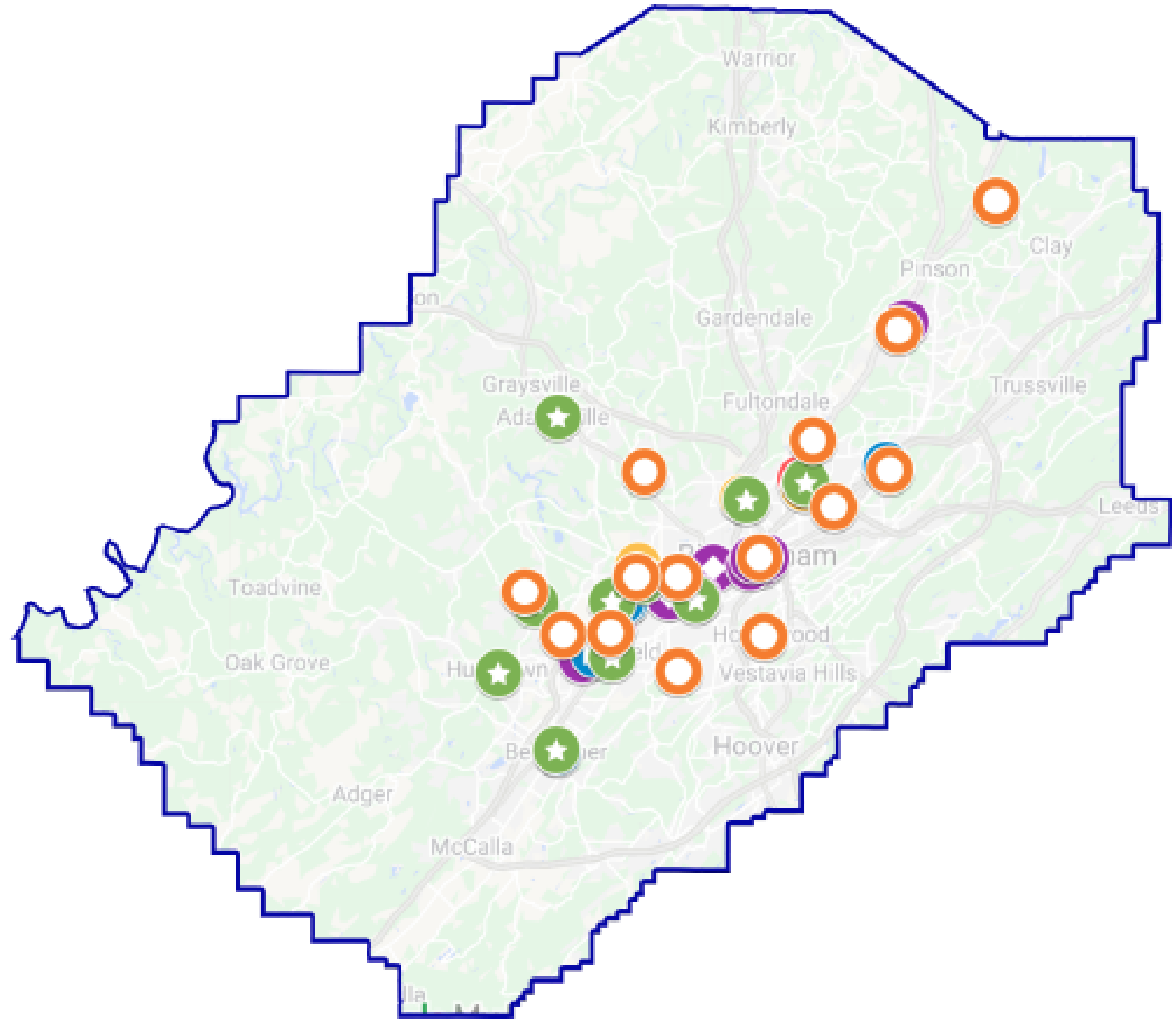


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STREAM IMPACT

Demographics served:

STREAM Innovations Programs Impact within Jefferson County, Alabama (2017-2020).



Jefferson County:

Inglenook, Adamsville, Pleasant Grove, Hueytown, Fairfield, Midfield, Bessemer, West End, Ensley and North Birmingham.

STREAM IN ACTIONS

- **Purple dot:** Events for STREAM in the Community
- **Yellow dot:** Locations for STREAM Saturdays
- **Orange dot:** Participants of Coding Bootcamp
- **Green dot:** Locations for Check Out STREAM



STREAM Innovations™

ABOUT
the founder

ABOUT Dr. Starks



Dr. Adrienne Starks grew up in Fairfield, Alabama, graduated from Alabama A&M University with a Bachelor of Science in Biology, and received a PhD in Biological Sciences from University of Maryland Baltimore County. She went on to complete her postdoctoral training at National Institutes of Health (NIH). It was there, while completing her postdoctoral research at NIH, she realized she was a triple minority: A female African-American.

She was not the only student of color from a city like Fairfield that could have attended pursued degrees in STEM and but she did not see the representation of women, black scientists, and Americans in many of the places discovery allowed her to thrive, and Dr. Starks saw that as

Determined to make a change, she came back to Alabama and began to create programs that could help people of color develop their passions, prepare for the professional world and to encourage students to use those skills to better their communities. She founded an organization whose mission is to equip students from undervalued and underserved communities to explore and develop their passion for Science, Technology, Reading, Engineering, Arts, and Mathematics (STREAM).

STREAM Innovations focuses on providing opportunities for students to gain exposure and experiences while promoting collaborative engagement that will better prepare and empower them to find success and fulfillment throughout their adult live.

CDR *Adrienne*
STARKS

BETTER
together



@STREAMINNOVATIONS

WWW.STREAMINNOVATIONS.COM

If you are interested in any of the above opportunities, please contact us via our website www.streaminnovations.org or by email at stream@streaminnovations.org

You can also learn more about STREAM Innovations on Facebook, Instagram, Twitter, and LinkedIn.

