





Mission Statement

Enriching the lives of girls through
Science, Technology, Engineering & Math

Vision

The Vision of Girls 4 Science (G4S) is to increase science literacy amongst girls ages 10-18 through scientific discovery and collaboration with external partnerships.

Saturday Science Academy

Saturday Science Academy operates for six consecutive Saturdays every quarter at Olive Harvey City College of Chicago, Malcolm X City College of Chicago, University of St. Francis (*Joliet*). The Science Academy includes small group science exploration, themed field trips that allow participants to experience STEM “live and in action” and mentorship.





History

Girls 4 Science is a nonprofit organization dedicated to exposing girls in Chicago ages 10-18 years old to science, technology, engineering and math. We focus on developing skills, self-esteem, awareness and relationships to help girls overcome barriers that may prevent them from achieving greater success in these fields. Research shows boys and girls demonstrate similar attitudes toward science in elementary school. As they get older, girls' grades and interest decline. Only about 20 percent of women in the U.S. have careers in STEM fields.

G4S has an open enrollment policy that does not discriminate on the basis of financial status. Many who take part do not have readily available resources to support educational opportunities. Others, who once had access to enrichment programs, no longer do because of budget cuts during these difficult economic times. Consequently, they share a lack of positive images and varied role models that can isolate them in male-dominated STEM fields.

G4S draws upon external partners to provide comprehensive hands-on, personal experiences during our year-round six-week sessions. It is Chicago's only all-girls science initiative providing instructors in a state of the art laboratories. It is also an organization that offers a noncompetitive, peer-to-peer environment of encouragement.



A Change of Course for Girls





Letter from the Executive Director

Girls 4 Science celebrated its 5th year anniversary in 2014. In 2009 we opened our doors to girls 10-18 years of age at Olive Harvey Community College. A coalition of parents, volunteers, teachers, and sponsors took the first step to create Chicago's only all girls science initiative.

As a single mother, I wanted to work at eliminating the program costs for families. This goal was shared by sponsors like Cedar Concepts Corporation, Ingredion Incorporated, Vista Equities, Baxter Healthcare Corporation, Illinois Tool Works, Joseph and Bessie Feinberg Foundation and Comed. These organizations took the next step by engaging their staff to host Saturday Science Academies with topics in science, technology, engineering and mathematics. Comed hosted the IceBox Derby where 12 G4S students worked with Engineer professionals to convert a recycled refrigerator into a race car with a motor. Cedar Concepts Corporation, lead a lab involving "the science of soap" using Surfactants, the girls manufactured their own usable hand soap. Baxter Healthcare Corporation created a career day, where the girls had the opportunity to explore careers in the Health Care Industry. Ingredion Incorporated sponsors Space Camp each year, giving three girls the opportunity to learn about topics in aerodynamics and abroad. Joseph and Bessie Feinberg Foundation has engineered a best practice for G4S to manage their donor and student records.

As the Founder and Executive Director of Girls 4 Science I am looking forward to the next five years of service.

Regards,

Jackie Lomax

Founder/Executive Director

Girls 4 Science



Letter from the Board Chair

I have had the opportunity to observe Girls 4 Science grow into a “butterfly” on all levels. As the Chairperson of G4S Board of Directors I have assisted the Board to develop solutions regarding programming and governance. The student experience is always a primary focus of G4S. We continued to improve in this area with laboratory experiments facilitated by subject matter experts and exciting and engaging field trips. The newly formed Program Committee, oversees the quarterly themed modules and ensures that it meets the goals regarding student development.

Connecting the community with the mission of G4S is another initiative that has helped sustain G4S growth. I host an annual Garden Party Fundraiser each spring to help raise money for future Saturday Science Academy modules. The formation of the Advisory Board has impacted recruitment and policy implementation.

Many thanks to all of the G4S donors and sponsors for “leading by example”.

Amy E. Wilson, Ph.D., J.D.

Board Chair

Girls 4 Science



REPORT CARD

Age Range

10-18

African-American participants

71%

Schools represented through out the Chicagoland area

176

Girls' participation in each quarter

100%

Elementary aged girls registered at each site (approx)

232

High school aged girls registered at each site (approx)

42

New registered in 2014

189

New volunteers per quarter (approx)

8



G4S Girls

After completing a Saturday Science Academy our girls reported the following: (data compiled from pre/post surveys of the four program quarters of 2014)

2014 HIGHLIGHTS

Binary Coding Circuits Lab



Mastadont Matrix Lab



Behind the scenes at Field Museum with the Field's President Richard Lariviere



97%
want to study
STEM in college

94%
are confident
in Science

90%
are confident
in Math

A Change of Course for Girls

Girls 4 Science (G4S) is positioning itself to be the leader in STEM exposure for girls throughout the Chicagoland area for years and years to come. Girls 4 Science's program model collaborations with STEM professionals and corporations, and intentional efforts to celebrate and raise awareness of women in STEM - will change the overall perception of STEM in Chicago. G4S is committed to making STEM exposure and learning accessible and fun so that girls are excited about STEM. The G4S model is rooted in girls believing in themselves and their ability to contribute to the community and society at large in a field where women are under-represented. If more girls have access to G4S programming there is great potential for more women to study STEM on a collegiate level, pursue STEM professions and offer unique perspectives to future STEM innovation. G4S will change the trajectory of the lives of many deserving young girls in Chicago.



De'Asiah McIntosh
16 years old

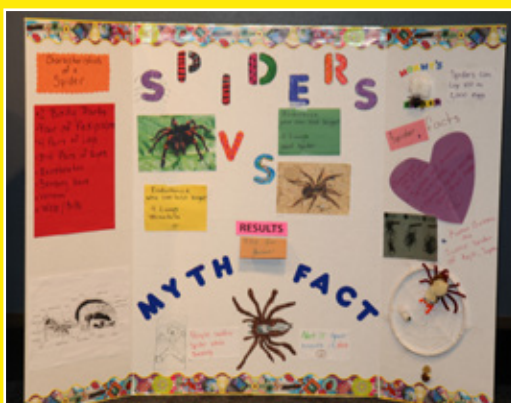
De'Asiah envisions herself as a Medical Examiner Investigator.

Through Girls 4 Science mentorship, she experienced teamwork and hands-on science experiments.

"After school math and science programs will help encourage other girls to consider a STEM career."

2014 Poster Symposium Winners

Ages 10-11



1st Place

Alexa VanLengen — Spiders
University of St. Francis

2nd Place

Kelly Fitzgerald — DNA/Inherited Traits
University of St. Francis

3rd Place

Ahriel Tyson — Spiders
Olive Harvey, City Colleges of Chicago

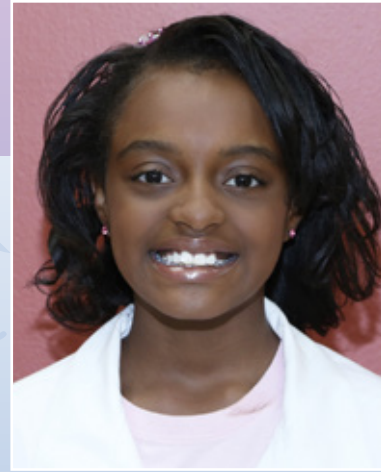


Lillian Luangsomkham
11 years old

Lillian aspires to a career in journalism with a particular interest in Science and Technology.

She gained a better understanding of the the sciences and all that STEM encoumpasses.

“Girls 4 Science motivated me so I think it will motivate other girls too.”



Zell Wilson
10 years old

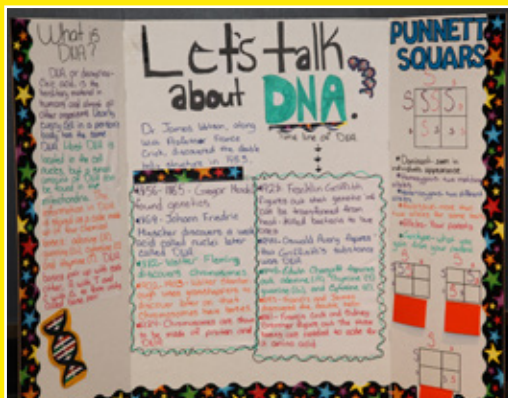
In college, Zell would like to study criminal law as a research scientist and a judge.

She enjoyed working on the lab experiments in her G4S sessions which serves as further motivation to study criminal law.

“Vistiting companies and organizations and seeing people in different science careers will help encourage other girls to consider a career in STEM.”

2014 Poster Symposium Winners

Age 13+



1st Place
Isabella Baumann — Genetics
University of St. Francis

2nd Place
Lauren Lomax — Spiders
Olive Harvey, City Colleges of Chicago

3rd Place
SpiKayInn Cavens — Animal Behavior
Malcom X, City Colleges of Chicago

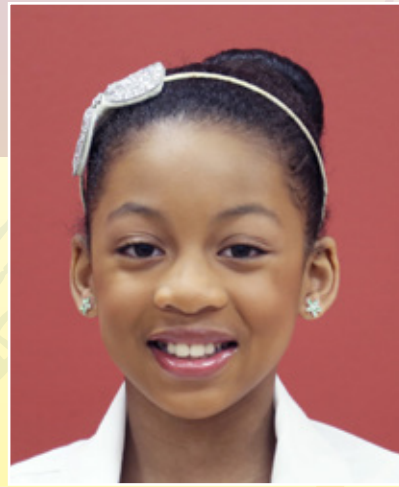


Mariah Ford
10 years old

Mariah wants to open a restaurant after receiving a degree in finance and business.

She learned through G4S that she must not only study how to cook the food by studying culinary arts but also learn about managing the business and finances to make the business profitable.

"I think that when girls understand that going into a STEM career can be profitable."



Summer Pratt
11 years old

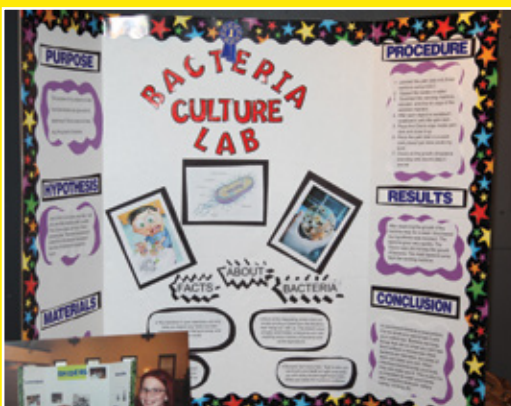
Summer wants to study Chemistry and find a cure for Alopecia and Foot Fungus.

Her G4S group tried to find a cure for Influenza. She learned what it would take to find a cure for disease, and that she can do it through Chemistry.

"Seeing other women in STEM careers gives us hope. If she can do it so can I."

2014 Poster Symposium Winners

All Ages



1st Place

Taylor May, age 11 — Bacteria
Malcom X, City Colleges of Chicago

2nd Place

Lydia Richardson, age 12 — Bacteria
University of St. Francis

2nd Place

Sofia Gonzalez, age 10 — Spiders
University of St. Francis

Our Partnerships

Over the past six years Girls 4 Science has been able to do exemplary and impactful work to increase science literacy amongst our participants. Some organizations that have allowed us to provide dynamic and hands-on activities to our girls are:



Baxter



**CEDAR
CONCEPTS**
Chemical Manufacturer



**CITY COLLEGES
of CHICAGO**
Education that Works



ComEd
An Exelon Company



Ingredion.



TW



V
Vista Equity Partners

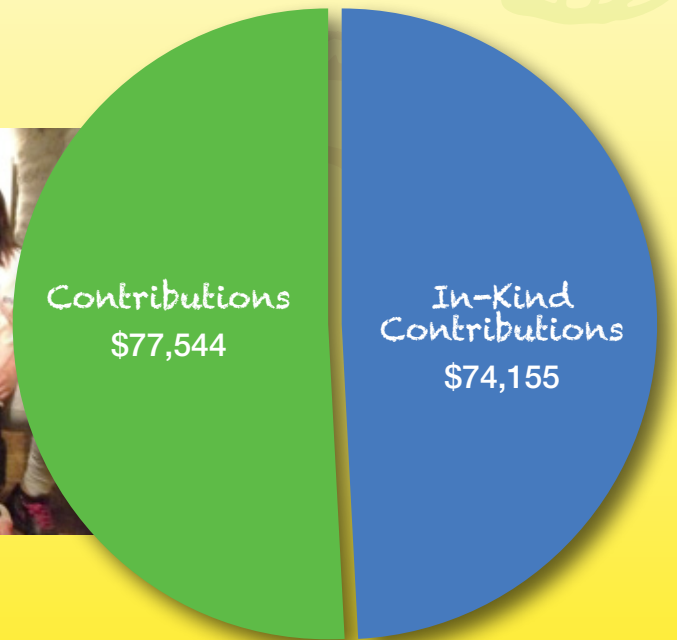
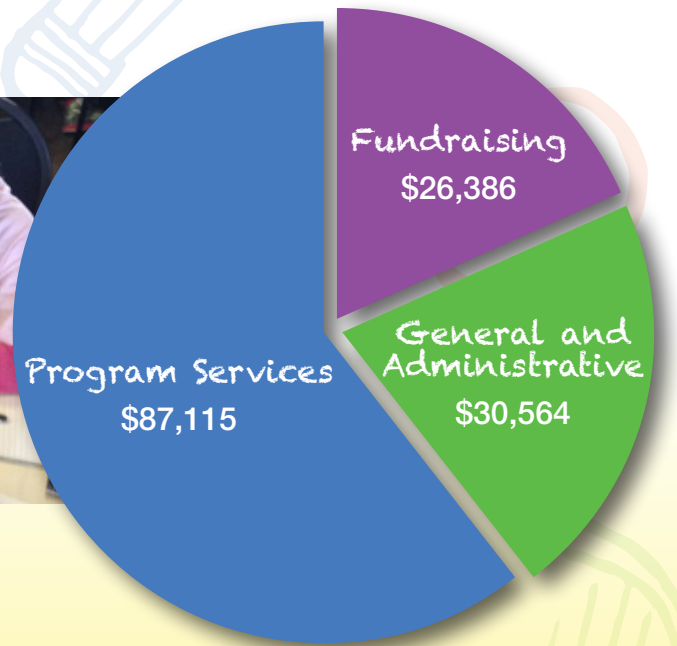
Ways to Partner with G4S

- Sponsor a Saturday Science Academy
- Host a Saturday Science Academy Quarter
- Donate program supplies
- Sponsor a bus for a G4S field trip
- Provide refreshments for a G4S Saturday Science Academy
- Sponsor G4S t-shirts which include your company logo
- Become a board member



Fiscal Year 2014 Review

January 1, 2014 — December 31, 2014





2014 DONORS

G4S is grateful for all contributions and time volunteered

\$25,000 and above

Cedar Concepts Corporation

\$14,999 - \$10,000

ComEd

Joseph & Bessie Feinberg Foundation

Ingredion Incorporated

\$9,999 - \$5,000

Baxter Healthcare Corporation

Illinois Toolworks Foundation

Vista Equity Partners, LLC

\$4,999 - \$1,000

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Kinder Morgan Foundation

Salesforce.com Foundation

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Danny Gonzalez

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Brandy Grove

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Edith & Eric Harris

Bertha & Tammy Herring

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Tawnya Hoefakker

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Kyla Williams

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Cheri Wilson-Chappelle

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Kim Wynette



Our 2014 Volunteers

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Brittani Franklin
Ivory Hill
Rosemary Reddice
Richard Turner
Kari Barlan
Lauren Wilder

Malcolm X College Mentors

Kimberly Berkowski
Phylindia Gant
Ericka Kroger
Francine Williams
Lauren Smith
Jason Briski
Chelsee Strojny
LaShawn Freeman
Emily Loebig
Sharidan Rickmon
LaNyah Newton

University of St. Francis Mentors

Regina Block
Kristy Kipka
Brian Moskalik
Susan Renner
Kayla Madej
Leisa Morris
Mackenzie Mancuso

Girls 4 Science 2014 Program Coordinators

Olive Harvey College / Deneen Robinson, Tieranny Baker
Malcolm X College / TBA
University of St. Francis / Carole Frano



2014 Board of Directors

Girls 4 Science is honored to have a committed Board of Directors that actively guide and support us in our continued growth. If you are looking for an exciting opportunity to use your expertise and support a growing organization consider joining our Board of Directors.

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Alan Brazil, C.P.A.
DuSable Museum

Robin L. Brown, M.B.A.
Ingredion Incorporated

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Ajinomoto North America, Inc.

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