



STEMbees

Empowering Young African Women In STEM

#WeLeadTheFuture



The Queen bee is the head of the bee colony and to us she represents leadership. The name STEMbees represents and emphasizes the importance of women in Science, Technology, Engineering and Maths (STEM). We are raising girls to become leaders in the STEM fields (colonies).

The Challenge -the "STEM GG (Gender Gap)

Very few girls are encouraged to pursue Science, Technology, Engineering and Mathematics, accounting for the so few women in STEM fields. Why is this? From research and observation:

- Ratio of men to women in STEM related courses in Ghanaian Universities is averagely 10:3.
- No competition in the work environment; most STEM related industries are male dominant.
- Lack of confidence to pursue STEM curricula due to conventional stereotypes of African women.
- Lack of awareness of career opportunities in STEM as well as role models.

Our Approach

Our ultimate goal is to improve the statistics of women pursuing STEM-related courses and working in STEM fields. This requires generating greater interest and excitement about the many opportunities in STEM.

In monitoring and evaluating our advance towards bridging the STEM GG, there are two ways we are working towards this mission:

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STEM 1.0 - *The Numbers Approach*

Advocacy and Communication programs to create awareness and garner interest in STEM fields.

- SiSTEM (Sisters in STEM) includes presentations to introduce STEM professions in a compelling and real-life way with related hands-on modelling and tinkering activities.
- Everyone can learn to code including girls. Coding workshops expose them to computer science (CS) education and empower them to create with technology at a young age.

STEM 2.0 - *The Impact Approach*

This is our Programmatic efforts designed to develop these girls in STEM and help them remain in the STEM pool. It is structured to close the gap between the often binary worlds of "school" and "work".

Modules include introduction to 3D Technology and Printing, Electronics (using the Makey-Makey, Raspberry Pi and Arduino), Cyber-Security and LEGO Education.

Bee Part



Volunteer - Be the change! Join our volunteer team or start a chapter today. A STEM bee leads the future.



Partner - Join us in promoting and delivering STEM education to more girls and schools.



Donate - We can't succeed alone. By investing charitable money, we're able to embark on more projects to provide resources and tuition to girls especially in undeserved areas.



Let's EMPOWER more young African women in Science, Technology, Engineering and Mathematics (STEM). Join us bridge the gender gap in STEM.

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Business Facts
(2015/2016)

Stem 1.0
200 girls
100 boys



Stem 2.0
30 girls



Team

Angela, Linda and Lady-Omega pursued Civil Engineering, Actuarial Science and Geomatic Engineering respectively. They met during their time at the Meltwater Entrepreneurial School of Technology (MEST).

With the support of partners and volunteers, STEMbees currently works in public schools and with other non-profits to develop tailored STEM content and programs for young ladies



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