Empowering Women and Girls in STEM/ STEAM

Alisha Koulen, Operations Manager- STEM Guyana



Educational Background



- Undergraduate Degree in General Biology- 2014
- Interned with Iwokrama as a Research assistant
- Post Graduate Diploma in Education (Science)-2017
- Awarded ECCAM(Education for Climate Change & Mitigation) Scholarship- MSc in Biodiversity Conservation & Sustainable Development at UWI- Trinidad (2019/2020)

Professional Roles







- High School Science Teacher Ministry of Education – 3 years
- Interned at Department of Environment- Data Management Unit, Antigua and Barbuda in 2020 for 3 months.
- Mitigation and GIS Apprentice- also apart of National Coordinating team for project ICAT-Initiative for Climate action Transparency- 1 year.
- Operations Manager, STEM Guyana- present
- International Youth Climate Delegate- attending PRECOP28, COY18 &COP28 in Abu Dhabi & Dubai





ALISHA FEONA KOULEN Climate and Biodiversity Advocate

SKILLS GAINED

- Data Collection/ Data Analysis – using R
- Data Management
- QGIS GIS Modeling
- Species sampling Techniques
- Teaching , planning, coordinating
- Project/ event management
- Technical Report Writing

Collaborative Critical thinking Problem solving Innovation Communication Leadership

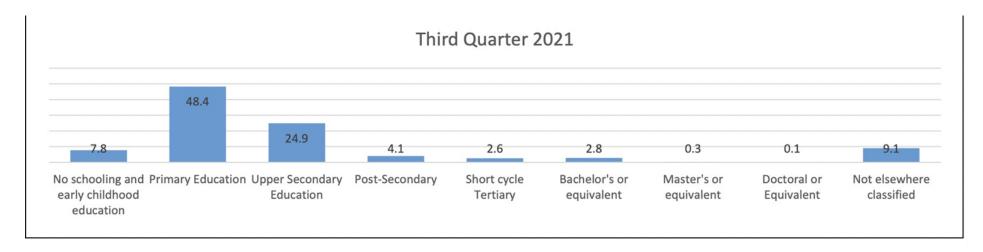
- Gender bias
- Unequal Pay
- Lack of Opportunities
- Lack of Representation/ Female role models
- Sexual Harassment/ Assault

CHALLENGES FOR WOMEN & GIRLS IN STEM

- Breaking stereotypes
- Overcoming gender bias
- Representation
- Encouraging curiosity
- Building generation with technological competence – cam innovate & create solutions for social issues.
- Benefit from opportunities in STEM fieldsconsidering Oil & Gas industry and the demand for jobs in years to come.

WHY IS IT IMPORTANT TO HAVE MORE WOMEN & GIRLS IN STEM

WHY STEM GUYANA IS IMPORTANT



⁵ Note that Category 7 and Category 8 are not statistically different than 0.

% of working age population by level of education completed

STEM Guyana – Preparing the Next Generation of Innovators

- Strengthen: literacy, coding , robotics, math, English & science
- + Problem solving
- + Critical thinking
- + Intellectually curious
- + Confident
- + Collaboration
- + Innovators
- + Excellent communication
- + Technology skills
- + Globally competitive
- + Strengthen core academic skills



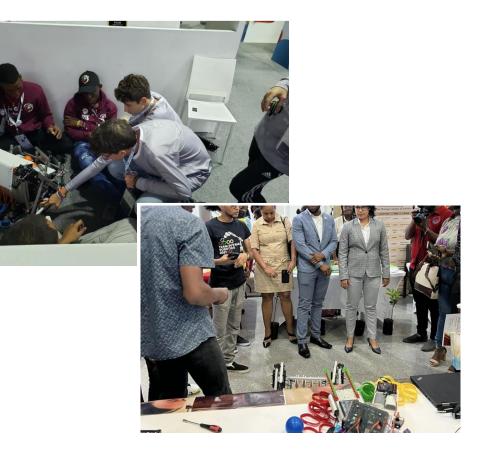


West Canje

- We're in every region because genius is in every region
- At least ¹/₂ girls everywhere
- International teams (girls)
- 40 Learning Pods & 15 stem clubs









Critical Outcomes – Student Success

- Learners able to compete globally, regionally & nationally
- Learners strengthen literacy skills
- Learners improve Math scores
- Motivated to research for themselves
- Learners improve communications skills
- Curious about what is behind
- technologies they consume

HOW TO GET INVOLVE IN OUR WORK?

- + Become a volunteer and help young learners.
- + Join a STEM club near you.
 - + Open a STEM Club in your community or school.
- For more info on how to support, follow us on FB or IG-STEMGuyana.
- Email-<u>stemguyana@gmail.com</u>
- Contact Operations Manager 6432609

