



*Unlocking STEM Potential*

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# ASSOCIATION PROFILE PRESENTATION


[www.tanzaniastemnetwork.co.tz](http://www.tanzaniastemnetwork.co.tz)



# About ASSOCIATION

Tanzania STEM Association (TSA) is an NGO and Association that unites STEM enthusiasts across the country, bringing together professionals, students, educators, and institutions passionate about the advancement of Science, Technology, Engineering, and Mathematics (STEM). Our aim is to drive innovation, collaboration, impact and improve the quality of education to address both local and global challenges. Through TSA, individuals and organizations can engage in hands-on training, workshops, fund, research & development, and consulting services.

We provide opportunities for growth by fostering a collaborative environment where knowledge, ideas, and skills are shared to build sustainable, tech-driven solutions. By connecting STEM professionals and empowering future leaders, TSA seeks to spark curiosity and creativity while laying the foundation for a prosperous future driven by the power of STEM. Our impact reaches across Tanzania and Zanzibar, supporting efforts to solve pressing societal challenges through innovation and education.







# VISION

To catalyze the future of Tanzania through the transformative power of STEM (Science, Technology, Engineering, and Mathematics).



# MISSION

To unite and empower STEM enthusiasts across the nation, creating a collaborative ecosystem where knowledge, ideas, and resources are shared to drive the growth of STEM fields in Tanzania.





# MEET OUR DEDICATED TEAM



Max George  
Board member



Eng. Caroline Valerian  
Board Member



Kelvin Paul  
Board Member



Eng. Fatma Mwamba  
Board member



Jumatatu Getiga Chiwa  
Founder & Director



Eng. Juliana Marko  
Board member



Humphrey Mrema  
Board member



Dr. Mboni Kibelloh  
Board Member



Hassan Bodalbhai  
Board member



Raya Ahmada  
Fundraising &  
Development Lead



Manuel Muke  
Research &  
Development officer



Esther Rashid  
Partnerships &  
Collaboration specialist



Daniel Kasongi  
Community  
engagement officer



Fatmah Suleyman  
Communication &  
Marketing lead



Samson Mhela  
Media manager



Dickson Cyprian  
Technology &  
Innovation lead



Fanleck John  
Youth representative



Dorine Gibson  
Community  
engagement  
Coordinator





# Our Goals

- Expand access to quality STEM education in rural and underserved areas through outreach programs, mobile labs, and educational content.
- Establish a STEM Research Fund to support groundbreaking research in emerging technologies, AI, renewable energy, climate change and healthcare that directly impacts Tanzania's development goals
- Create platforms like innovation hubs, STEM Centers and incubators to support aspiring entrepreneurs and innovators in developing STEM-based solutions.
- Launch initiatives focused on empowering young women to pursue careers in STEM by providing mentorship, leadership training, and scholarships to bridge the gender gap in science and technology fields.
- Develop projects aimed at addressing national challenges such as healthcare, agriculture, and climate change by leveraging STEM innovations that promote sustainability and improve livelihoods across Tanzania.
- Foster national and international collaborations between educational institutions, research centers, businesses, and governments to create a thriving ecosystem that supports continuous learning, knowledge sharing, and innovation in STEM.
- Launch leadership and mentorship programs aimed at cultivating the next generation of STEM professionals and leaders, ensuring that Tanzania is well-positioned to compete on the global stage in science, technology, and innovation.



# OUR PROJECTS

## 1. STEM Research and Development Fund

### ❖ AREAS OF OPERATION

- Research universities and institutions.
- Government research agencies and science councils.
- STEM departments in universities and polytechnics.
- Public-private partnerships in industrial R&D.
- Technology transfer offices in universities.
- International R&D collaborations.

### ❖ SERVICES OFFERED

- Providing grants and funding for innovative STEM research.
- Supporting interdisciplinary STEM projects tackling national challenges (e.g., health, agriculture, environment).
- Facilitating collaborations between academia, industry, and government.
- Offering training programs in research methods and innovation.
- Hosting national conferences to showcase funded research.
- Promoting commercialization of research outputs into products or services





# OUR PROJECTS

## 2. Girls in STEM Empowerment Initiatives

### ❖ AREAS OF OPERATION

- Girls' primary and secondary schools.
- Women's university programs.
- Rural and urban communities promoting women's leadership.
- Government gender equality programs.
- STEM associations and women's groups.
- Corporate and NGO partnerships supporting women in STEM.

### ❖ SERVICES OFFERED

- Providing mentorship programs connecting young girls to female STEM role models.
- Organizing leadership training and empowerment workshops.
- Offering scholarships and grants for girls pursuing STEM degrees.
- Developing STEM camps and after-school clubs for girls.
- Partnering with media to highlight stories of women in STEM.
- Advocating for gender equity in STEM policies with the government.





# OUR PROJECTS

## 3. STEM Awards Program

### ❖ AREAS OF OPERATION

- National STEM conferences and events.
- Secondary schools, universities, and research centers.
- Public and private sector STEM institutions.
- Non-profit organizations supporting STEM.
- Regional and district educational offices.
- International STEM award collaborations.

### ❖ SERVICES OFFERED

- Recognizing and awarding outstanding achievements in STEM fields.
- Organizing national awards ceremonies to honor contributions to STEM.
- Offering scholarships and grants to awardees for further studies or projects.
- Promoting winners through media and partnerships.
- Providing mentorship and networking opportunities for award recipients.
- Creating a platform for the government and sponsors to support excellence in STEM.



# OUR PROJECTS

## 4. Community STEM Centers

### ❖ AREAS OF OPERATION

- Urban community centers.
- Rural villages and towns.
- Secondary and primary schools as community hubs.
- Regional libraries and learning resource centers.
- Digital and mobile learning centers.
- Regional and district council offices.

### ❖ SERVICES OFFERED

- Establishing STEM labs and learning spaces equipped with technology.
- Offering community training sessions on STEM skills (e.g., coding, robotics).
- Providing after-school programs for students.
- Hosting public STEM fairs and exhibitions.
- Offering free access to STEM resources (books, computers, internet).
- Partnering with local leaders to promote STEM within the community.





# OUR PROJECTS

## 5. STEM Impact Challenge

### ❖ AREAS OF OPERATION

- Secondary schools and universities.
- STEM innovation hubs.
- Public-private sector partnerships.
- Government development programs.
- Non-profit and community-based organizations.
- Global STEM networks and collaborations.

### ❖ SERVICES OFFERED

- Organizing annual challenges focusing on national issues (e.g., healthcare, environment).
- Offering funding and mentorship to winners for project implementation.
- Creating collaborative teams to develop innovative solutions.
- Facilitating partnerships between participants and industry experts.
- Providing training in project management and execution.
- Showcasing winning projects at national and international forums.



# OUR PROJECTS

## 6. Mobile Learning Labs

### ❖ AREAS OF OPERATION

- Remote and underserved communities.
- Public primary and secondary schools.
- Urban and rural community centers.
- District education offices.
- Higher learning institutions with limited STEM resources.
- Government-sponsored rural development projects.

### ❖ SERVICES OFFERED

- Bringing STEM learning opportunities to rural areas with mobile labs.
- Offering practical STEM workshops for students and teachers.
- Providing access to the latest technologies (e.g., AI, robotics, 3D printing).
- Partnering with local schools to supplement their curriculum with hands-on learning.
- Hosting mobile STEM fairs and exhibitions.
- Supporting government and NGO education initiatives through mobile outreach.





# OUR PROJECTS

## 7. Innovation Hub and Incubator

### ❖ AREAS OF OPERATION

- Urban innovation hubs (Dar es Salaam, Dodoma, Arusha and other regions).
- Regional incubators in secondary cities (Mwanza, Mbeya, Tanga, Dodoma, Arusha).
- Universities with engineering, tech, and science departments.
- Entrepreneurship centers and innovation labs.
- Public and private sector organizations.
- Online platforms for virtual incubators.

### ❖ SERVICES OFFERED

- Offering co-working spaces for innovators and entrepreneurs.
- Providing business and technical mentorship for startup development.
- Facilitating access to funding, grants, and investors.
- Hosting hackathons and innovation challenges to address local problems.
- Offering training on intellectual property and patent registration.
- Connecting startups to global markets and partners for scaling solutions.



# OUR PROJECTS

## 8. Education Outreach Programs

### ❖ AREAS OF OPERATION

- Public and private primary schools.
- Public and private secondary schools.
- Higher learning institutions (colleges and universities).
- Rural and underserved communities.
- Regional and district education offices.
- Special needs schools.

### ❖ SERVICES OFFERED

- Providing interactive STEM workshops for students and teachers.
- Distributing educational materials, including textbooks, kits, and digital content.
- Conducting STEM awareness campaigns through roadshows and school visits.
- Offering mentorship programs connecting students to STEM professionals.
- Organizing career guidance events to highlight STEM career opportunities.
- Partnering with local governments to implement STEM clubs in schools.





# OUR PROJECTS

## 9. Mentorship Exchange Program

### ❖ AREAS OF OPERATION

- Universities and research institutions.
- Secondary schools (rural and urban).
- Private sector STEM industries (tech, engineering, health).
- International exchange programs.
- Regional STEM organizations and professional networks.
- Government ministries and agencies (education, science, innovation).

### ❖ SERVICES OFFERED

- Offering one-on-one mentorship for students and early-career professionals.
- Facilitating mentorship exchange visits between local and international STEM professionals.
- Creating a database of mentors and mentees for long-term guidance.
- Providing career counseling and guidance for students in STEM fields.
- Organizing networking events and career fairs.
- Offering digital mentorship platforms for remote guidance.



# OUR PROJECTS

## 10. Entrepreneurship Bootcamp

### ❖ AREAS OF OPERATION

- Innovation hubs and incubators.
- Universities and business schools.
- Corporate innovation centers.
- Public-private entrepreneurship initiatives.
- Local government enterprise development offices.
- International entrepreneurship networks.

### ❖ SERVICES OFFERED

- Offering entrepreneurship training and workshops on business development.
- Providing mentorship for aspiring STEM entrepreneurs.
- Facilitating access to investors and venture capital.
- Organizing pitch competitions for startup funding.
- Offering access to co-working spaces and business resources.
- Partnering with government programs to support youth entrepreneurship.





# TARGET MARKET

- Youths, students, Kids STEM Enthusiasts
- Educational institutions
- Corporations and Private Sector (STEM-related industries)
- Government and Public Sector
- Philanthropic organizations, Non-Governmental Organizations(NGOs) and Companies promoting STEM education and innovation
- Small and medium-sized businesses interested in STEM
- Teachers, lectures, Parents, Guardians and educators

# TANZANIA STEM NETWORK

## STATUS QUO

(7.4M Kids & Youths in Tanzania)

914 Secondary Schools  
340,000+ students

92 Colleges  
29,000+ students

19 Universities  
90,000+ students

57 STEM Companies  
80,000+ people

678 Primary schools  
820,000+ students

77 STEM Organizations  
30,000+ people

73 STEM Startups and initiatives  
18,509+ people

**TOTAL: 7.4M+ to be impacted**



**OUR ASK  
\$ 450,000  
and  
PARTNERSHIPS**







# Get In Touch?



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