



PROFILE

The Problem

Youths are Africa's most prominent resource. Africa's youth populace is quickly developing and expected to increase to about 830 million by 2050 (Africa Development Bank, 2016). If properly harnessed, this increase in the working age population could lead to an increased productivity and a great potential in achieving transformation and sustainable development across the continent. Today, most youths in Africa do not have stable economic opportunities. . The problem is not just unemployment but underemployment, which peaks at just over half of youth in the labor force in African countries.

The Solution

The aim of Engineering and Technology Against Poverty in Africa (ETAPA) Synergy Strategy 2022-2025 is to create 3000 jobs and reach over 15000 Africans by equipping youths with hands-on technical skills in engineering and technology thereby driving inclusive economic growth across the continent and helping them to realize their full economic potential. The expected long-term outcomes are increased innovative solutions and an expanded economic opportunity for African youth, thereby leading to an improvement in other areas of their lives.

We have two main objectives of achieving these;

Equipping African youths with technical and soft skills that match the engineering and technology labour market needs thereby addressing supply challenges in human capital development.

Fostering better connections between employers and young Africans addressing industry linkage challenges and as well develop their entrepreneurship skills to create more jobs.



WHO WE ARE

WE WILL:

► Be the Innovator

Develop and prove evidence based replicable breakthrough solutions for problems leading to lack of innovation among African youths by facilitating their critical thinking.

► Be the Voice

Advocate and campaign for better policies and practice that support productive activities, decent job creation, innovation and promotion of STEM education activities.

► Build Partnership

Collaborate with stakeholders in various sectors and civil society organization, communities, educational institutions, governments and the private sector to share knowledge and influence others

► Achieve Result at Scale

Support effective implementation of best practices programmes and policies in STEM to promote sustainable economic growth and decent work for all, and minimizing poverty at all cost.

OUR VISION

An Africa where young people potentials have been built-up and strengthened to address challenging problems using engineering and technology



OUR MISSION

We empower and equip underrepresented young people through engineering and technological skills for personal advancement and community transformation.



OUR VALUE

Respect

Accountability

Innovation

Synergy

Excellence

ENGINEERING

ENGINEERING TRAINING

Our training program in ETAPA Synergy is aimed at equipping participants with necessary, practical and up-to-date engineering skills required by employers. Our aim is to help graduates of tertiary institutions and/or industry workers back-up their theoretical knowledge with the needed relevant skills with a state of the art learning equipment. The duration of the training varies from two days to one year depending on training needs. Training above three months includes an internship for the student with our partner companies. We also offer bespoke training for companies.

Mechanical Engineering

- Mechanical measurement and fittings
- Industrial Hydraulics
- Pumps and Compressors
- Fundamentals of Engine

Electrical Engineering

- Electropneumatics
- Sensor Technology
- Motor Control-Variable Speed Drive
- Fundamentals of PLC (Programmable Logic Controller)
- Building Wiring
- Computer Aided Design and Drafting.

YOUTH EMPLOYABILITY IN THE FIELD OF ENGINEERING (YEFE)

We have identified that in order to tackle the problem of un-employability in Nigeria, there is need to make available platform that will provide young graduate with practical technical training that will equip them with the hands on experience that is needed by industries and thereafter on the job placement to practically do what has been learnt in their various field of profession. We have reached over 5000 engineering youths through our different initiatives.



GIRLS IN ENGINEERING



The Girls in Engineering program aims to promote gender equality in the engineering sector by bridging their transition from school to work by organizing practical skill training in the engineering sector and advocating for involvement of more females in the STEM sector through our school outreach programs.

We have trained over 1500 female engineering youths and over 10000 female students in our school outreach programs, to promote gender equality and enhance inclusion in the engineering sector.

SAFE WATER FOR ALL PROJECT

By 2050, the world's population is estimated to grow by three billion and 90% will be in developing countries with more than 40% of the world's population already living in conditions of water scarcity, unless sustainable water solutions are created, regions already stressed for water resources will be over capacitated and make it an issue that demands immediate attention.

ETAPA Synergy has provided two communities in Delta and Lagos with borehole facilities serving more than 20000 community members.



TECHNOLOGY

TECHNOLOGY TRAINING

We provide accredited practical technology and soft skills training for anyone with the zeal to learn where students work on real time projects. The duration of the training varies from two months to one year depending on training needs. Training above three months includes an internship for the student with our partner companies. We also offer bespoke training for companies.

Our training includes:

Block Chain Technology

Data Science

Cloud Computing

Cyber Security

Software Development (Python, Java, Javascript, HTML, PHP, etc)



TECHNOLOGY FOR ALL

A digital inclusion project where we trained youths and children from disadvantaged communities on digital skills in the area of application development, cybersecurity, website designing, blockchain technology and data science as well as the soft skills involved.

56 female graduates has benefitted from our project through the “Girls in Technology” project and over 100 children in low income primary schools has benefitted from the project through our “STEAMS” project.



SUMMER CODING

A summer camp combines life building skills with courses in Java, C++, Python, and other languages, giving kids and teens the opportunity to create games, apps, robots, and more. The program provides students hands-on experience with AI, modding, cybersecurity, and other relevant, in-demand skills.

RENEWABLE ENERGY

PVC SYSTEM INSTALLATION TRAINING

In just one week, participants learn everything about solar PVC at our program. All relevant topics are covered over the course of the five days of training. We put a heavy emphasis on practical application in every session. Participants learn about the electrotechnical basics and functionality of PV systems, as well as how to properly install systems according to international standards, plan, manage, and sell a project, and size the system, including the battery pack, to meet the needs of the customer.

STEAM PROJECTS



DARE TO IMAGINE

A slum community initiative where children are exposed to fundamental skills in STEAMS education to bring out their creative skills and an opportunity to change their world. Hundreds of children living in slum and urban slum community has benefitted from this initiative.

We exist to improve the educational success of the disadvantaged children in our community by providing items needed for school, building their self-esteem, improving their innovation, creativity and their well-being.

BACK TO SCHOOL

Every year, we host the project “Back to School” to help support the children in paying their school fees, buying educational material and sometimes scholarships are given to the children, thanks to our generous donors!

We have enrolled over 300 children living in urban and rural slums, back to school.



RESEARCH AND ADVOCACY

We are dedicated to advancing engineering research through advocacy. We use best practices from other industries to inform research design. Research models taken from the market research industry will be used to drive advocacy towards the promotion of world accepted STEM skills in Nigeria.



OUR PARTNERS

