



WELCOME TO THE WORLD OF AEROVERSITY



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The Modern Times

of the 20th century

in politics, economics, culture, society, and technology

and their impact on our world today

Edited by Michael S. Roth

with contributions by 100 scholars from around the world

Volume I: The Twentieth-Century World

Volume II: The Twentieth-Century United States

Volume III: The Twentieth-Century American Mind

Volume IV: The Twentieth-Century American Home

Volume V: The Twentieth-Century American City

Volume VI: The Twentieth-Century American Workforce

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LESSONS FROM THE VIDEO

It all begins with a seed

and with the vision of
someone willing to wait ...

- To plant a dream
- To make his dream his habit
- To do daily things that would make it a reality
- To ignore those who said it couldn't happen
- To push past his own fear and doubt
- To keep taking action.
- To have faith when there was no reason to have faith
- To Persist and be diligent
- To Persevere and Endure hard times
- Not to be afraid to start from small beginning.



Our Existence

(We are problem solvers & Innovative thinkers)

Aeroversity sees that Democracy hinges on the broadest possible dissemination of quality scientific education and has created an interface where STEM students and teachers can improve a failed education system through self-organization.

Aeroversity is a world where intellectual, entrepreneurial, and technical talent can be fostered for the prosperity of all. This prosperity is vital to developing nations' future economic growth and depends on education systems that support economic development while helping all students to become innovators and inventors, self-reliant and logical thinkers, and technologically proficient problem solvers.

Vision



- (1) Hope:** We believe that cultural stigmas, religious restrictions, and oppressive laws prevent girls and boys in many developing countries from obtaining the education they deserve. By sharing inspiring hope in these students, we give them hope to achieve their dreams.
- (2) Passion:** Our teachers and educators inspire students and act as their role models: the best solution to students' education crisis. Let's fuel a passion for learning in all the young women and men around the world and see the real change.
- (3) Persistence:** We support young people willing to work hard to achieve their dreams, willing to spend the extra time and energy to succeed and willing to risk the consequences of change.
- (4) Integrity:** We demonstrate *integrity* toward our commitment and vision by focusing all of our efforts on creating innovative solutions and projects that address two primary concerns: economic development and gender equality.
- (5) Leadership:** We believe it is important to encourage students in developing nations to take *leadership roles* as a part of their educational journey if they are to become *leaders* in their communities and in their chosen professions.
- (6) Innovation:** We use *innovative* multidisciplinary STEM learning tools such as STEM K-12 resources, the rocket kits, aircraft kits, Raspberry Pi kits, and others to foster student interest in STEM fields. **Equality:** We believe that empowering women through STEM education can *abolish gender inequality*. Our vision is of a world where women receive the same educational access and opportunities as men.



Objectives

Our primary goal is to encourage STEM education in developing countries, positively impacting young people's education in STEM worldwide. Our STEM Innovation strives to achieve this goal by focusing on four primary objectives:

- (i) To provide world-class education for Nigerians at the cheapest price ever.
- (ii) To encourage and inspire young people in developing countries to pursue post-secondary education and careers in scientific and technical fields by hosting STEM workshops that foster their interest.
- (iii) To bring students from other developing nations to adopt our mobile application and attend our online and virtual schools to study science, technology, engineering, and mathematics wherever they are in the world.
- (iv) To create supplementary programs and encourage implementation of STEM programs at the schools in Nigeria and other developing countries that support these students and encourage them to view science, technology, engineering, and mathematics as a tool to instill innovative and problem-solving skills.

Education



Field Trips and Classes

Mission

Our mission is to stimulate a lasting interest in the STEM disciplines, with the goal of encouraging students to pursue careers in these fields.

This is accomplished by actively involving students in the support of authentic research currently being conducted on the International Space Station (ISS) or in a NASA ground-based laboratory.

This will inspire young generation in developing nations and underserved group in developed nations around the world to pursue careers in science, technology, engineering, and mathematics (STEM); for the future will be built on people's capacity to innovate, invent, and solve problems creatively.

Philosophy

Our philosophy is built around three core values:

(1) Innovation



To help developing nations meet the technological demands of the 21st century by providing an innovative way to foster the skills necessary to bring about the necessary changes. We use multidisciplinary STEM learning tools such as rocket kits, aircraft kits and other hands-on tools to provide students with real-world experiences that expose them to technical subjects and creative problem solving.

(2) International Cooperation



People and cultures around the world can make valuable contributions to the lives of all people. When individuals from differing cultural and geographical backgrounds meet and cooperate toward common goals, they create a powerful synergy. An international exchange of diverse knowledge, skills, and cultures can cause world-changing things to happen. This exchange starts with the more advanced nations sharing their technology and skills with the developing world. The outcome is a world where all nations have a chance to prosper, benefitting both the haves and the have-nots by reducing dependence.

(3) Equity and Empowerment in Science, Technology, Engineering, and Mathematics (STEM)

We seek gender equality in education for females across all parts of society in every part of Nigeria and the world at large. We believe that girls have a right not only to basic education but to advanced education in STEM. To correct this all-too-common inequality, we believe we must provide resources and programs that enable, encourage, and support women's educational opportunities in STEM and that integrate young women and young men into a mutually supportive educational environment.

Welcome to Aerospace Palace International, Nigeria

- (i) A Palace without walls
- (ii) A Palace without a king
- (iii) A Palace without a queen
- (iv) A Palace without a servant
- (v) A Palace where nobody is superior
- (vi) A Palace where nobody is inferior
- (vii) A Palace where your opinions count
- (viii) A Palace where everybody is equal
- (ix) A Palace where we uphold the banner of truth always
- (x) A Palace where the ONLY key for promotion is your INTEGRITY and not your qualifications.





BABARINDE Abraham: (Training Officer)

He is a graduate of Agricultural Engineering from Obafemi Awolowo University and also he just obtained his MSc in Industrial and Production Engineering from the University of Ibadan, Nigeria.



OYERINDE 'SEUN: (Programme Director)

Oluwaseun graduated from Federal College of Agriculture, Moor Plantation, Ibadan where he studied Agricultural Engineering. He also a trained Mechanical Engineer and has also obtained various professional certificates.



SUPPORTERS/VOLUNTEERS: Our esteemed

supporters, mentors, advisers and evaluators who support our vision to ensure we clearly reflect our solid commitment and our team dedication to supporting youth empowerment to achieve sustainable, better and empowered youth by 2025.



AROWOSEGBE Folashade: (Admin Officer)

She is obtained her NCE programme from the Federal College of Education, Abeokuta, Ogun State, Nigeria. She is also a professional member of Nigerian Teachers Institute.



EMAGRIMOR Augustina: (Business Director)

She is a graduate of Business Administration from Delta State Polytechnic, Nigeria. She is highly ambitious customer service and sales with background in sales, marketing and advertising. Expertise in market analysis, forecasting and client needs assessments.



IYIADE Ezekiel: (Media Officer)

He is a graduate of Agricultural Engineering from the University of Ibadan, Nigeria. He is well experienced in video editing, graphics designs and he is in charge of the media section of the organisation and gives us the necessary media exposure.

Certifications



Accreditation by International Youth Federation, UK: This accreditation status clearly reflects our solid commitment and our team dedication to supporting youth empowerment to achieve sustainable, better and empowered youth by 2030.



International Women of Aviation Worldwide (IWOAW), USA certified us as a Women friendly organisation.



In January 2018, Abiodun became the first Nigerian to be appointed by the **Space Foundation, USA** as a Space Foundation Teacher Liaisons Flight 15-18! With capacity to act as a Space Foundation Teacher Liaison officer Flight 15-18! He was selected as one of the 31 Space Foundation Teacher Liaisons Flight 15-18!" In this capacity we serve as advocate for space-themed education and use Space Foundation-provided training and resources to further integrate space principles into the classrooms.



Problem Statement

An average Nigerian lives on amount less than \$2/day and cannot afford the huge cost of education. This is the problem we designed our project to solve by providing affordable, accessible and cheap education for Nigerians.

Also, around the globe, particularly in developing countries, women and youths lack opportunities to obtain the education that they so desperately need and deserve. Cultural stigmas, religious restrictions, and oppressive laws keep women trapped in desperate poverty and ignorance, unable to obtain the education that might give them hope.

According to UNESCO, the fields of STEM are critical to any nation seeking to grow in the 21st century global economy; therefore, Space-related science, technology, innovation and exploration will contribute to bettering humankind and the sustainability of our planet within many areas such as agriculture, climate change, disaster response, transportation, health, communication, banking and many more spinoffs and applications.

Target Audience

Our target groups are in the range of 10-45 years which according to CIA Factbook=(41,506,288)+(39,595,720)+(19,094,899)+(18,289,513)+(30,066,196)+(28,537,846)=177,090,462. Resulting in a percentage of 92.8% of the entire population, out of which we are targeting approximately 60% participants.

Hence, our customers have been segmented into 4 categories as:

- (i) The general public:** These are the main people and organisations that really need our services for their day-to-day operations.
- (ii) Students and teachers:** These are the categories of people who come to our office for training and empowerment and/or make use of our mini-curriculum in their school activities. Pupils and Student in the age range 08-15 years, 16-18 years, 19-25 years and age 25years above.
- (iii)Organisations:** These are Staffs from other non-academic institutions and organisations that need training prior to employment, promotion and/or for self-development.
- (iv)The Government:** The government of the 36 states & Federal government can adopt our curriculum for National development.



What We Do

We have developed an ‘American Institute of Aeronautics & Astronautics’ and ‘Space Foundation’ approved mini-curriculum covering 65+ lessons which are easily digestible lessons focused on aerospace principles and meant to spark conversation and interest in aerospace. Lessons range from engineering to mathematics, to physics, to aerospace. The mini-curriculum is subdivided into 13 course-packs. At the end of each pack, we have 10 selected multiple choice questions with 2 each from the 5 topics.

We have also introduced the following 9 free online courses developed for students’ participation at no cost whereby students learn about scientists, their research, participate in classroom experiments that mirror the research on the International Space Station (ISS), and then do some analysis and data gathering activities that support on-going researches. These hands-on inquiry-based activities are supported by near-real time digital and video images downlinked from orbit and provided to the classroom.

- Connect students and teachers in classrooms with world class scientists and engineers at NASA and beyond.
- Work with the scientists and engineers to design and develop short term, standards based, flexible curriculum and investigations.
- Provide a win/win for teachers and the scientists. Teachers get a unique way to teach STEM disciplines by involving students in current authentic space-based research and the scientist may get added value data from the students.
- We help students make the necessary connections with scientists and hence build a rewarding relationship.

Justification

4 QUALITY EDUCATION



5 GENDER EQUALITY



8 DECENT WORK AND ECONOMIC GROWTH



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



10 REDUCED INEQUALITIES



29%

Globally, only 29% of science researchers are women, although several developing nations are showing a positive trend.

\$12 trillion

Reducing the gender gap may bring as much as \$12 trillion to the global GDP in only few years' time, by 2025.

90%

It has been estimated that 90% of future jobs will require ICT skills, and some 2 million new jobs will be created STEM related fields.

11%

Historically, over 560 people travelled to space. Only 11% of total space travellers have been women.

11 to 15 years

Girls gain strong interest in STEM subjects at the age of 11. They tend to lose it already at the age of 15.

20%

Women represented only 20% of space industry employees in 2016, which is on par with numbers from 30 years ago.

Space-related science, technology, innovation and exploration will contribute to bettering humankind and the sustainability of our planet within many areas such as agriculture, climate change, disaster response, transportation, health, communication, banking and many more spinoffs and applications.



Aerospace Palace International, Nigeria
AEROSPACE & STEM EDUCATION EXPERTS

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WELCOME TO OUR 'AEROVERSITY' ONLINE STEM EDUCATION RESEARCH PLATFORM



EDUCATOR LOGIN

aviationpalace@gmail.com

.....

SIGN IN

Need assistance signing in?



STUDENT LOGIN

First Name

Last Name

Teacher Name

SIGN IN

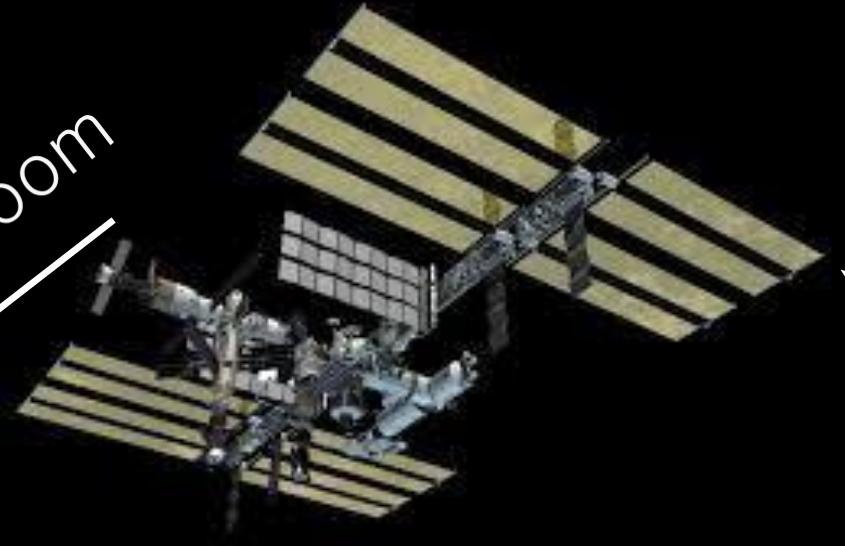
Need assistance signing in?

How we work

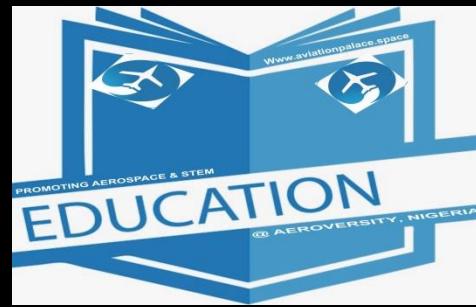
We Make the Connections



Downlink to Classroom



Research to ISS



Student Data to Scientist



THE PRINCIPAL INVESTIGATORS



DR. ABBA ZUBAIR
Mayo Clinic, Jacksonville,
Florida
STEM CELLS STUDY ON STATION



DR. JOSEPH WU
Stanford University
STEM ON STATION



DR. CHERYL NICKERSON
Biodesign Institute
Arizona State University
MANAGING MICROBES IN SPACE



STEFANIE COUNTRYMAN
University of Colorado,
Boulder
PLANT GROWTH IN SPACE



DR. LOUIS STODIECK,
University of Colorado,
Boulder
SPIDERS IN SPACE



DR. SHARMILA BHATTACHARYA
Head of the Biomodel Performance
and Behavior Laboratory
NASA Ames Research Center
FRUIT FLIES IN SPACE



MARY ANN HAMILTON,
Butterfly Pavilion, Colorado
BUTTERFLIES IN SPACE



DR. JULYAN CARTWRIGHT
Laboratory for the Study of
Crystallography in Granada,
Spain.
SILICATE GARDENS IN SPACE



DR. C. IGNACIO SAINZ DIAZ
Laboratory for the Study of
Crystallography in Granada,
Spain.
SILICATE GARDENS IN SPACE



DR PETER LEE
Ohio University
STEM ON STATION



DR. CATHARINE CONLEY
National Aeronautics &
Space Administration.
WORMS IN SPACE



DR. NATE SZEWCZYK
National Aeronautics &
Space Administration.
WORMS IN SPACE

THE PRINCIPAL INVESTIGATORS

Secure the world with you



BABARINDE Abraham: (Training Officer)

He is a graduate of Agricultural Engineering from Obafemi Awolowo University and also he just obtained his MSc in Industrial and Production Engineering from the University of Ibadan, Nigeria.



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SUPPORTERS/VOLUNTEERS: Our esteemed

supporters, mentors, advisers and evaluators who support our vision to ensure we clearly reflect our solid commitment and our team dedication to supporting youth empowerment to achieve sustainable, better and empowered youth by 2025.



JOHN Stella: (Admin Officer)

She is a graduate of Education economics from University of Port Harcourt, Nigeria. She is also a professional member of Nigerian Teachers Institute.



EMAGRIMOR Augustina: (Business Director)

She is a graduate of Business Administration from Delta State Polytechnic, Nigeria. She is highly ambitious customer service and sales with background in sales, marketing and advertising. Expertise in market analysis, forecasting and client needs assessments.



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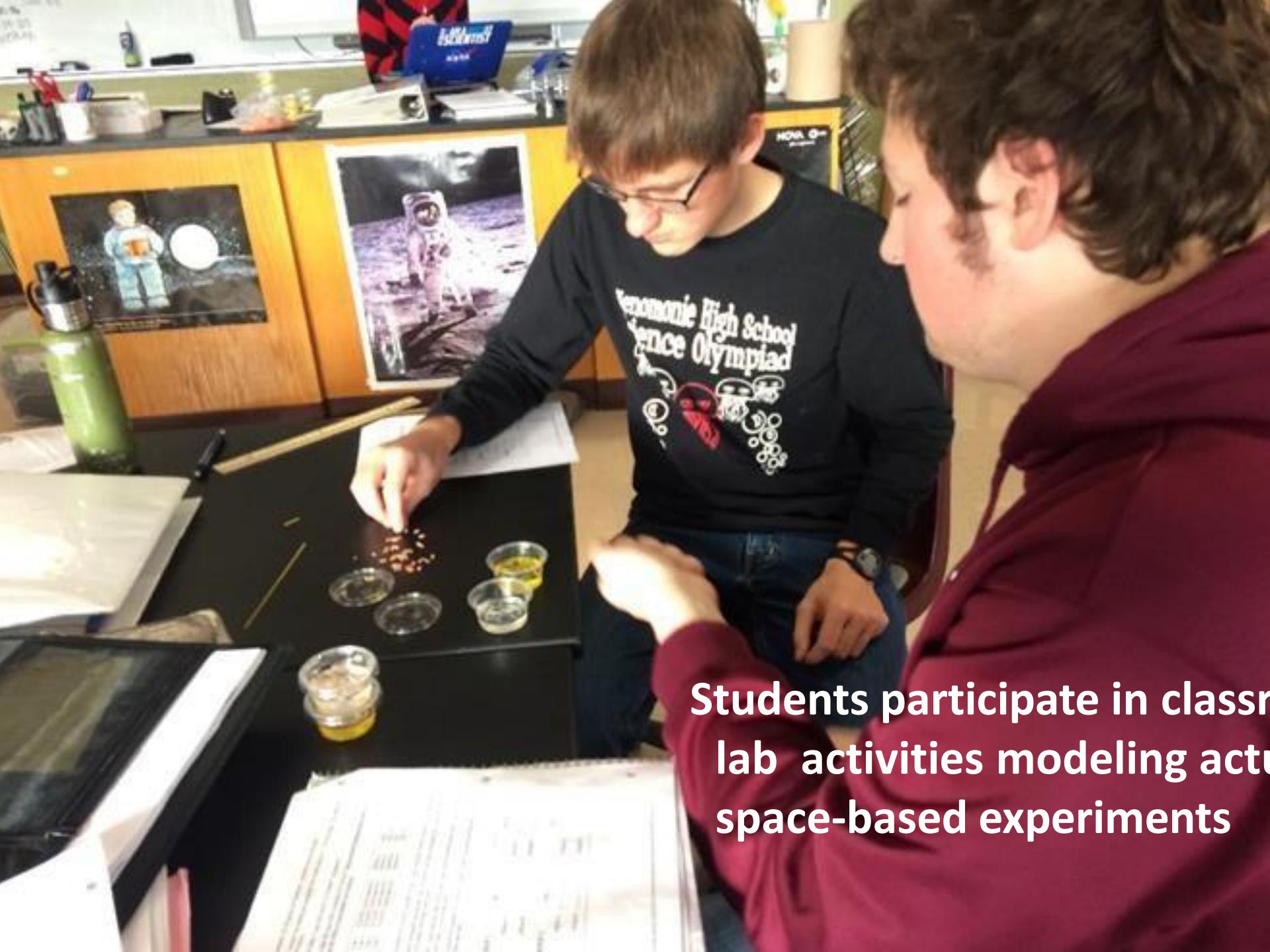
He is a graduate of Agricultural Engineering from the University of Ibadan, Nigeria. He is well experienced in video editing, graphics designs and he is in charge of the media section of the organisation and gives us the necessary media exposure.

Aeroversity Student Researchers

Engage in an online
mini-curriculum



Do analysis of photos
or videos downlinked
from real experiments
onboard the ISS



Students participate in classroom lab activities modeling actual space-based experiments

Secure the world with you



We believe that cultural stigmas, religious restrictions, and oppressive laws prevent girls and boys in many developing countries from obtaining the education they deserve.

Space-related science, technology, innovation and exploration will contribute to bettering humankind and the sustainability of our planet within many areas such as agriculture, climate change, disaster response, transportation, health, communication, banking and many more spinoffs and applications.

Our Projection



OUR VISION IN 5 YEARS TIME

Our target is to empower most Nigerian youths by providing accessible, cheap and affordable education for all by the year 2025 but presently, it is our aspiration to be a force to be reckoned with not only in Nigeria but Africa as this will move us a step closer to our 'agenda 2025' mission.

BENEFITS OF THE AFRICA4FUTURE PROGRAMME TO OUR OBJECTIVES

(1) COLLABORATION OPPORTUNITIES: We want to expand our circle of opportunity to include new and varied voices. We want the award in order to support our ideas to benefit from the abundant and prestigious opportunities and global attention; this will connect us to the networks and resources needed to advance the work. The award will afford us the opportunity to connect with visionary and exemplary leaders, network and meet with potential investors for the project.

(2) LIBRARIES AND SCHOOLS: The programme will enable us to publish our Aerospace Micro-Lesson curriculum and distribute to major libraries and schools in Nigeria for adoption and possible inclusion in the academic curriculum.

(3) ADOPTION AEROSPACE MICRO-LESSON AS NATIONAL CURRICULUM: The programme will also further strengthen and enable us to get necessary government approvals in Nigeria in order to enable us present the curriculum to the Federal Government of Nigeria for possible adoption as a National curriculum.

(4) OUR APP ON GOOGLE PLAY STORE AND E-LEARNING CENTER: This freedom gives our education greater agility and offers staff a work-life balance that is no longer a nice perk but instead a given, hence we want to expand our technology and innovation by improving on our official education mobile App and e-learning facilities.

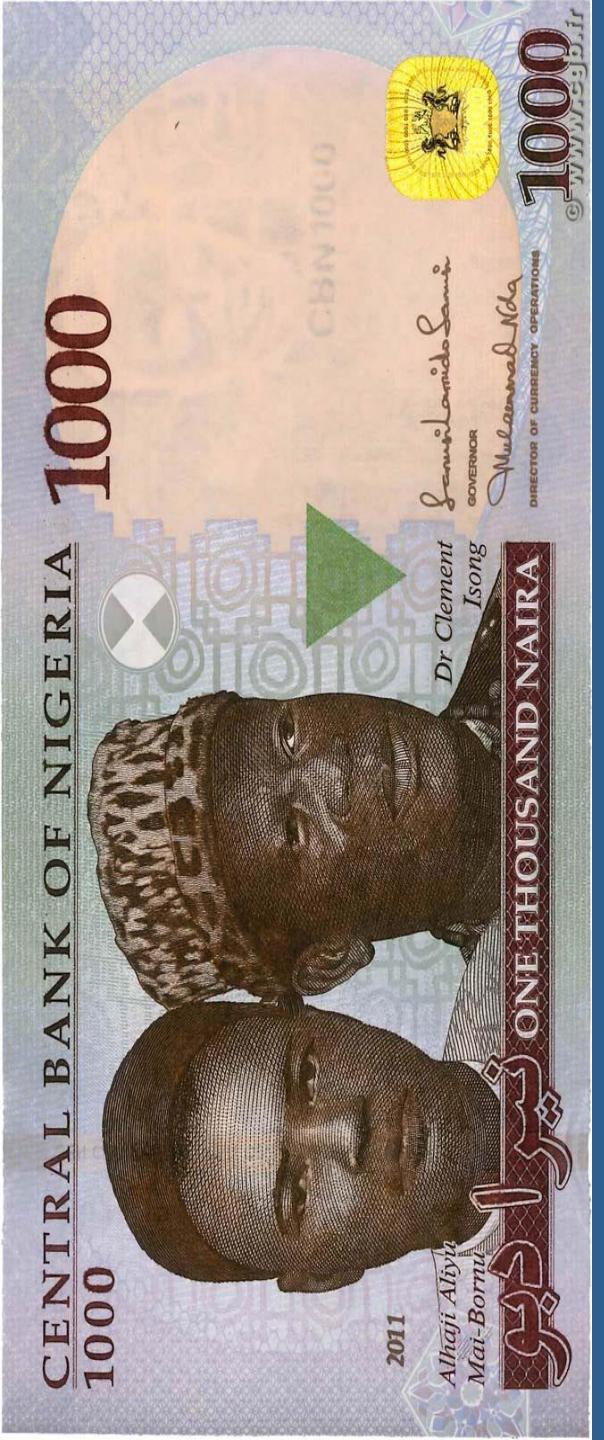
(5) NEED FOR MORE TEACHERS: The award will empower us to employ more teachers/staffs in order to meet up with the high education demand in Nigeria.

Market size Analysis

S/N	AGE GROUP (YEARS)	PERCENTAGE	MALE	FEMALE
1	0-14	42.5%	41,506,288	39,595,720
2	15-24	19.6%	19,094,899	18,289,513
3	25-54	30.7%	30,066,196	28,537,846
4	55-64	3.9%	3,699,947	3,870,080
5	65 years & over	3%	2,825,134	3,146,638

Our target groups are in the range of 10-45 years which according to CIA Factbook $= (41,506,288) + (39,595,720) + (19,094,899) + (18,289,513) + (30,066,196) + (28,537,846) = 177,090,462$; resulting in a percentage of 92.8% of the entire population out of which we are targeting a share of over 60% of approximately 106,254,278.

Source: CIA Factbook



How we make money

OUR ESTIMATION

When it comes to the average of a Nigerian citizen, the country is relatively young. Our main target groups are in the range of 10-45 years and CIA Factbook table gives us $(41,506,288) + (39,595,720) + (19,094,899) + (18,289,513) + (30,066,196) + (28,537,846)$ = 177,090,462

Resulting in a percentage of 92.8% of the entire population, out of which we are targeting approximately 60% of the group by the year 2025.

Hence, **OUR MINIMUM TARGET SALES VOLUME = 106,254,278 (approximately)**
UNIT COST OF THE COURSE PER STUDENT = \$1USD

BREAK-EVEN POINT ANALYSIS

It has been estimated that we need approximately \$93,833.00 (USD) to set up our e-learning innovation center.

With a minimum target of 106,254,278 population @ the rate of \$1USD each
Total amount expected = \$106,254,278(USD) approximately

Conclusion



STEM to Spur Infrastructure and Industrialization in Developing Countries:

The fields of Science, Technology, Engineering, and Mathematics (STEM) are critical to any nation seeking to grow in the 21st century global economy. A robust economy will require citizens thoroughly equipped to compete in the science and technology fields. STEM-focused education responds to the reality that a nation's future will be built its capacity for innovation and invention.

Our Response to the Need

The Aeroversity's STEM Innovation is determined to improve scientific and technological educational opportunities for students in Nigeria and other developing nations. By creating innovative solutions that help women and youths overcome barriers to education, we believe that we can slowly begin to turn the tide that has for so long held back talented, energetic, and intelligent young people who can be incredible assets to their communities, their nations, and their world.



Our target is to empower most Nigerian youth and provide cheap and affordable education for all by the year 2025. With our new approach, we intend to work as smart and fast as possible in order to gain our large share of the market. Hence, it is our mandate to break even on or before the year 2025.