TECHQUEST STEM ACADEMY

COMPANY PROFILE

TECHQUEST
PROFILE

Empowering Africa for the Digital Economy

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WHY WE EXIST

AFRICA'S POPULATION IS SET TO DOUBLE BY 2050 AND 70% WILL BE BELOW AGE 30.
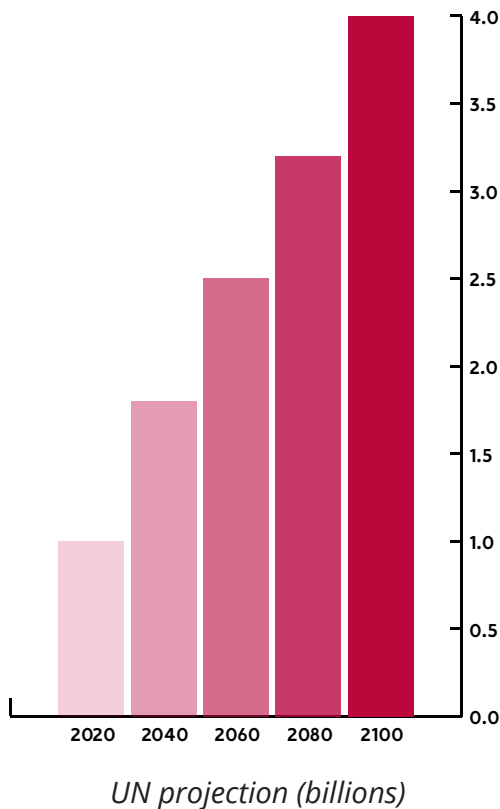
By the end of the century, almost half the young people in the world will be in sub-Saharan Africa. These young Africans that should be a huge asset to the growth and development of Africa are disproportionately affected by the problems engulfing the continent; problems such as poor health care, poor educational system and lack of economic opportunities. Young Africans must be armed with those in-demand skill sets that is required in today's knowledge-based economy, because each missed opportunity to invest in our continent's workforce is a missed opportunity to spur innovation, unleash the transformative power of new and emerging technologies, and grow the economy at large.

TechQuest STEM Academy believes that young people have the energy, creativity and the ability to make a difference on the continent. They are an asset to the development of the continent and their respective communities; and with the right engagements, guidance and support, can become innovators, inventors and leaders of positive change in the continent.

UN projection (billions)

> **Young africans must be armed with those in–demand skill sets that is required in today's knowledge–based economy**

ABOUT US

TechQuest STEM Academy is a nonprofit organization that provides education technology content, resources and tools for the delivery of ICT, STEM (Science, Technology, Engineering & Mathematics), and Digital literacy programs.

We believe that these pillars are the foundation for modern-day economic growth and equipping young people with these skills will be critical for Africa's rise in the digital economy.

MISSION

Our mission is to inspire African technology; raising the next million builders by imparting the building blocks of STEM, ICT and Digital Literacy; leveraging technology and community channels for scalable operations, minimal cost and a wider reach.

WHAT WE DO

We work with partner organizations, hubs and STEM educators to complement traditional academic learning with an in-depth introduction to STEM, ICT and Digital Literacy. We do this by providing content, resources, training and tools needed to drive capability building, innovation and evaluation at scale.

CONTENT & PRODUCT DEVELOPMENT

PROGRAM DESIGN & IMPLEMENTATION

MONITORING AND EVALUATION

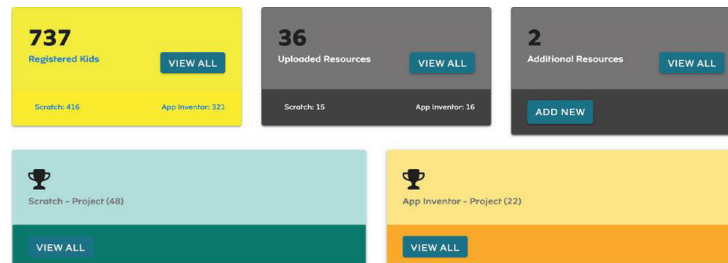**RESEARCH AND DEVELOPMENT**

LEARNING ASSESSMENTS

COMMUNITY ENGAGEMENT

CONTENT & PRODUCT DEVELOPMENT:

We create text and video content using design thinking principles. We also build hands-on products (tools) for delivery of STEM, ICT and Digital Literacy programs.

PROGRAM DESIGN & IMPLEMENTATION:

We design and implement STEM and digital literacy programs that align with our mission to inspire African innovation. We also co-create bespoke programs with our partners based on their business needs, strategic objectives and target beneficiaries.

Currently at the Academy, our we offer a range of digital literacy and STEM specialisation courses targeted at different ages and literacy levels. Our interventions are both online and physical.
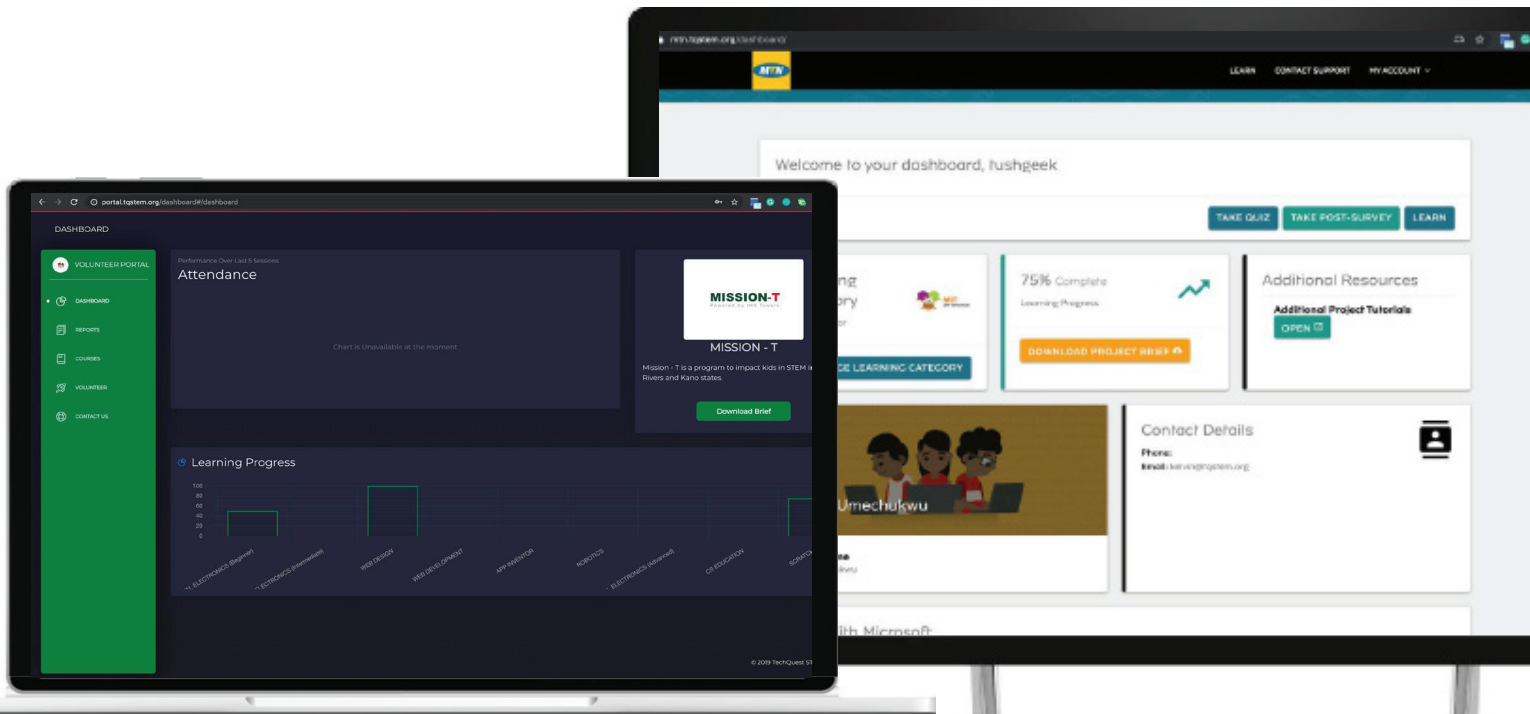
Our physical programs accommodate the changes needed in face-to-face engagements, obeying global health guidelines and social distancing practices recommended by the World Health Organisation. Our current offerings include:
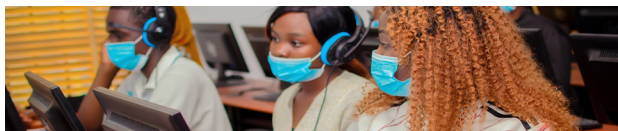
DATA SCIENCE WITH PYTHON

This course is designed for young professionals and university students to kickstart their journey of being a data scientist. The students learn how to use tools and techniques to find unseen patterns, derive meaningful information, and make business decisions.

COMPUTER APPRECIATION
(Introduction to Digital Literacy)

Our digital literacy course is suitable for anyone with basic reading skills who wants to learn the fundamentals of using digital technologies, irrespective of age. The course covers introduction to computer use, some Windows software, the internet and email.

PRACTICAL COMPUTER EDUCATION SCIENCE

Our Computer Science education course introduces students to computer science principles and concepts in an interactive and engaging approach using learning aids. The course introduces the students to important CS concepts and how they apply to every-day life.

MICROSOFT OFFICE COURSE

Our Microsoft office course introduces the Microsoft productivity programs (Word, Excel, PowerPoint and Outlook). The students learn how to use these tools in professional settings and automate certain of their work.

WEB DEVELOPMENT

This course introduces students and young adults to the intricacies of building usable web-based apps and products. Participants learn to build full-fledged websites and host them on the web.

INTERNET USE AND ONLINE SAFETY

Our online safety course teaches participants how to safely navigate the online world. The course teaches how to building healthy digital habits, evaluate the credibility of online websites, handle cyberbullying and manage their digital footprint.

DIGITAL ELECTRONICS WITH ARDUINO

Electronics, today, are a part of our everyday life. Our Digital Electronics course helps cause a shift in perspective of the students from just consumers of hardware technology, to makers of technology.

MOBILE APP DEVELOPMENT

In this course, participants learn the mechanics of building performant Android applications from scratch. Students would learn how to bring an app idea to life, determine features and develop them.

MONITORING & EVALUATION:

Our drive for Research & Development puts data collection and analysis at the forefront of our engagements. We facilitate sustainable development by embedding a culture of scientific thinking in our engagements.
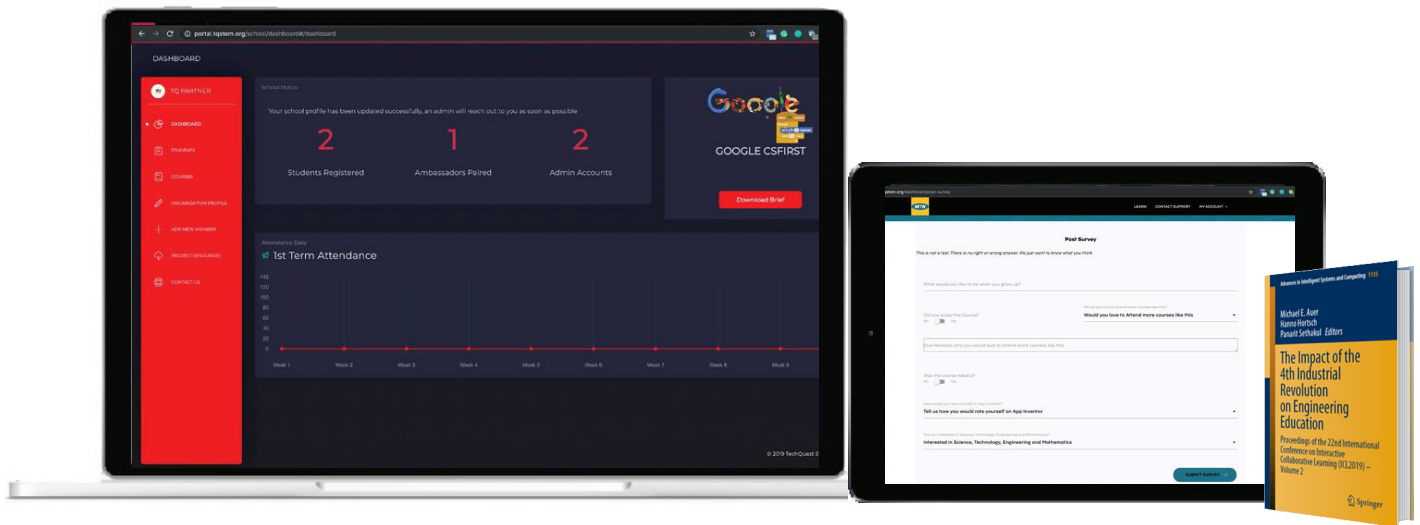
OUR REACH

Since our inception in 2015, TechQuest has impacted almost 33,000 young people in STEM through various programs, partnering with local, international and governmental organizations. Our goal is to inspire and encourage more people into the STEM field to fill the gap that the world faces, which Africa can provide for a better and inclusive tomorrow.

33,000+
People impacted

36
States in Nigeria

2128
Workshops delivered

993
Educators

77
Partner Oganisations

WHAT MAKES US DIFFERENT?

1

OUR APPROACH TO LEARNING

Our focus is to facilitate the United Nation's sustainable development goals 4 and 8; Quality Education & Decent work and economic growth, by embedding the culture of scientific thinking in building our content and resources for education, as well as for skill development. Our content are designed to follow these paths:

2

USE OF TECHNOLOGY

We employ the use of technology tools that aid our collaboration, automation and consolidation. Our community portal manages and organizes our community engagement, data and resources.

3

COMMUNITY ENGAGEMENTS

We work with STEM organizations and educators, providing the tools and resources required for delivery of the STEM Programs at Scale. We also engage international and governmental bodies in this cause.

DESIGN-FOCUS

Using design thinking techniques and experiments to facilitate learning through curiosity, activity and creativity (Inquiry-based learning)

PRACTICAL APPLICATION

Applying knowledge abd skills to real-world situations and constructing or prototyping solutions to challenges (project-based learning)

INTEGRATION

Real world problems are not limited to discipline, so solutions must always draw from many fields, in order to become a real-world solution (Collaboration-based learning)

OUR **PARTNERS**

Some of the organizations we work with:
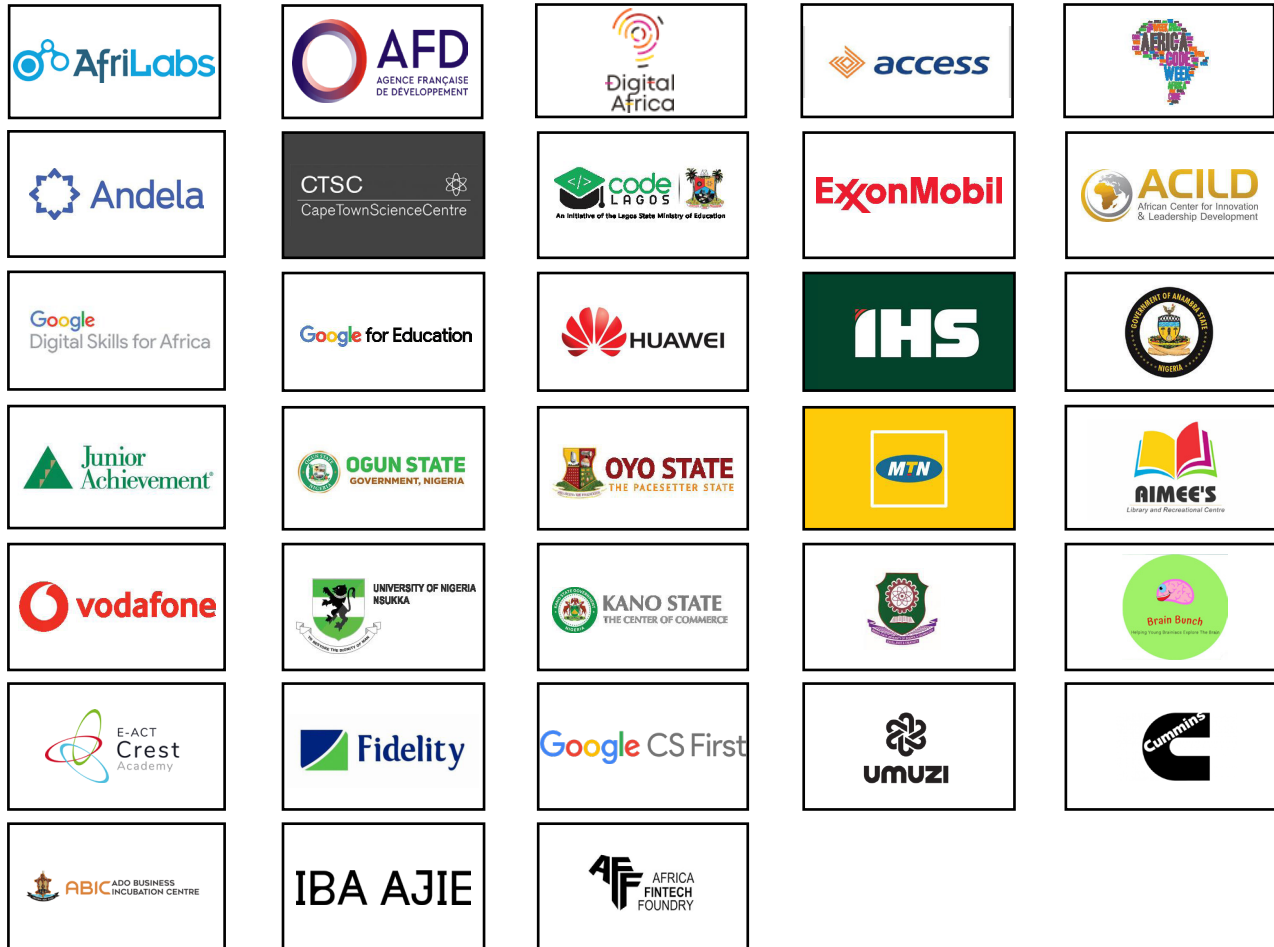
OUR **PROJECTS**

YEAR	PROJECT	DURATION	NUMBER OF RECEIPENTS
2016	Train 1000 kids in Surulere	4 Weeks	1000
2017	Summer Camp	4-6Weeks	*
2018	Train 1000 kids in Ebutte Meta	*	1000
2018	Easter Camp	2 Weeks	*
2018	TeachAKid2code	2 Months	5252
2019	Vodacom Robotics Training	2 Days	45
2019	MTN Kiddies Digerati	3 Weeks	219
2019	IHS Learn at Work Week	6 Months	75
2019	MTN mPulse Hackathon 2019	2 Months	745
2019	TQ Summer Camp (+ Remita)	6 Weeks	35
2019	Elevation Church Summer Camp	1 Week	17
2019	Africa Code Week	2 Weeks	1378
2019	Google CS First	4 Months	2045

YEAR	PROJECT	DURATION	NUMBER OF RECEIPENTS
2020	International Women's Day for Women and Girls in Science	1 Week	160
2020	TQ Webinar Series	2 Months	1500+
2020	Mission-T	Repeated Engagement	6115
2020	Digital Skills Training (Mission-T)	4 Weeks	1513
2020	ACBP Meetup Webinar (COVID 19, Improving Education and Providing Decent Work through EdTech Innovation)	1 Day	201
2020	Aimee's Online Coding Camp	5 Weeks	7
2020	MTN 2020 Hackathon	5 Weeks	205
2020	TechQuest Mentored Scholarship	12 Weeks	22
2021	Female Entrepreneurship Support Programme	3 Months	794
2021	MTN Global Acceleration Programme (GAP)	6 Weeks	10
2021	Digital Skills and Online Safety	2 Days	218
2021	Female Digital Academy Programme (AFF)	3 Months	*
2022	Digital Bootcamp Programme	2 Days	38

WHO WE ARE

YOU ARE ONLY AS GOOD AS YOUR TEAM

"Alone we can do so little, together we can do so much." *-Helen Keller*
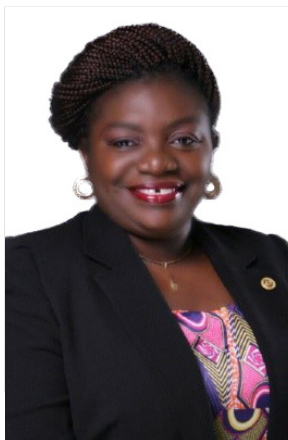
HELEN EMORE
CHAIRMAN, BOARD OF TRUSTEES

Helen serves as a Director at Courtville Business SOlutions PLC and STACO Insurance PLC. She is a professional Business Development, Strategy and Marketing expert with over 24 years of experience working with major corporates across multiple sectors.

ITORO EMEMBOLU
MANAGING DIRECTOR

Itoro is the Executive Director of TechQuest STEM Academy, with over 15 years cumulative experience in Telecommunications, Service Quality, Strategic Planning, Research, M&E and STEM Engagement. She has a Bachelor of Engineering, and MSc in International Business, Energy and Petroleum, an MPhil in Management and a PhD in Computer Networks & Security.

CHARLES EMEMBOLU

Charles is the Executive Director of Crestsage, on the Board of Lion Science Park, a member of the Nigeria Economic Summit Group (NESG). He is a certified Project Management Professional with over 16 years cognate experience in the areas of Computer Networks, IT Strategy, Project & Change Management, Business Transformation, It Consultancy and Entrepreneurship.

TEAM MEMBERS

ADEOLA ADEDIRAN
OPERATIONS EXECUTIVE

MAUREEN UGWUAMA
*PERSONAL ASSISTANT TO THE
MANAGING DIRECTOR, ADMIN
EXECUTIVE*

ADAKU INEM
OPERATIONS INTERN

Get Involved

Through volunteering and partnerships to implement projects and programs to prepare our young population for the future of Africa.

More information: info@tqstem.org

To volunteer: community@tqstem.org

To partner or donate: partner@tqstem.org

Website: https://tqstem.org

OUR **LINKS**

VISIT US

S/N	PAGE	LINK
1	Our Website	https://tqstem.org
2	Join Our Network	https://portal.tqstem.org
3	TQ STEM Kit	https://tqstem.org/shop
4	Updates	https://tqstem.org/blog

SOCIAL MEDIA

https://twitter.com/techquestcamp

https://facebook.com/techquestcamp

https://instagram.com/techquestcamp

https://linkedin.com/company/techquestafrica

https://youtube.com/c/TechQuestSTEMAcademy

TECH
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* CONTENT & PRODUCT DEVELOPMENT   * PROGRAM DESIGN & IMPLEMENTATION   * MONITORING AND EVALUATION   * LEARNING ASSESSMENTS   * RESEARCH AND DEVELOPMENT   * COMMUNITY ENGAGEMENT

Empowering Africa for the Digital Economy