



'Cultivating Future Innovators'

PRESENTS...

# Somali STEM Summit

**Part of Africa Science Week**

**Nurturing and enhancing knowledge & skills in Science,  
Technology, Engineering and Mathematics (STEM)**

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THEME

**"Rekindling Somali Knowledge and Interest  
in STEM Subjects"**

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**July 2018: 10<sup>th</sup> to 13<sup>th</sup>**

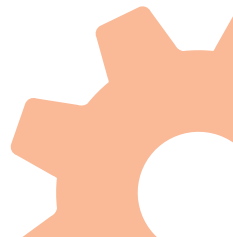
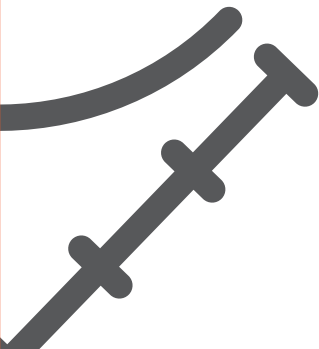


*“energise critical  
thinking, raise &  
promote science  
literacy and plant  
the seeds for the  
next generation”*



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## Opening Remarks



### **H.E. Abdirahman Dahir Osman**

Minister of Education, Culture and Higher Education. Minister Abdirahman Dahir Osman is an experienced educationalist. He has been working in education sector for over 15 years and has a master degree from the University of Oslo, Norway. Before his appointment as Minister for Education, Culture and Higher Education, Mr. Osman was Education Capacity Expert at the UN-ESCO Juba, South Sudan and a Senior Technical Advisor-Education at the Ministry of Education of Somalia. Mr. Osman also served as Education Specialist at the UNCHR, Dadaab Refugee Camp, Kenya; Project manager for education at the Norwegian Refugee Committee (NRC), in Mogadishu, Somalia. Minister Osman also served as Education Specialist at the UNICEF, Damascus, Syria, Norway, and was formerly Program Manager at the Hiraan Information & Research Center in Hiran, Somalia.

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### **H.E. Jamal Mohammed Hassan**

Minister for Planning, Investment and Economic Development

"I'm honored to participate in the first Somali STEM Summit in Somalia. STEM seeks to attract, inspire, and develop exceptional talent across the education system and develop linkages with industry and the private sector in the near future and with proper labs, our youth will easily develop products to solve social issues."

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### **Mayor of Mogadishu and the Governor of Benadir Region: H.E. Eng. Abdirahman O. Yarisow**

It gives us much pleasure to be the hosting community for this great first Somali STEM Summit. It's a great step towards the prosperity of Somalia. The Somali STEM Society will create a platform for empowering our academics and the youth. The education system in our country requires immediate revamping, and this is exactly what this Summit and the Somali STEM Society is all about.

I want to thank the Somali STEM Society and the organising committee for making this event a reality. I also want to congratulate Dr. Sadia Siad and all others that have worked so hard to make this Summit a success. To all students, academics, private and public sector, invited guests, visitors and all the interested people welcome to Somali STEM Summit.



## Welcome Message

On behalf of the Somali STEM Summit Organizing Committee, we are delighted to welcome you to the first Somali STEM Summit, held here in Mogadishu, Somalia. This has been a long time coming for us and a journey that started a while back, which we hope will lead to a bright scientific and economic future for Somalia.

As you all know Science, Technology, Engineering and Mathematics (STEM) is at the core of educational advancement and economic development in the 21st century. Many new innovations in science and technology available for public use today made life easier, enhanced and transformed the way of life for so many people. Unfortunately, Somalia has experienced a major lull in terms of general education and technological development for the past two decades and particularly STEM education due to the prolonged long civil strife.

The Somali STEM Society is a platform created to nurture and cultivate future Somali innovators, thinkers and developers so as to help the process of social and economic transformation.

We believe the time is right to improve the rigor and quality of education making it student centered and by infusing, theory, technology and hands-on practical training for enhanced student learning. This is a tall order for all involved and requires collaboration of both public and private sector.

The theme for this year's Summit is "Rekindling Somali Knowledge and Interest in STEM" – and our aim is to revive, encourage and assist next generation Scientists, Technologists, Engineers and Mathematicians to create, innovate and excel in their specialized fields of study or practice thus improving the overall quality of STEM education which in turn will spur economic development.

It's said a journey of one thousand miles begins with a single step. We are hopeful that you will join us, as we start this empowering journey!

Thank you for your participation and special thanks goes to our organizing committee for preparing an impactful Summit for us all.

Yours

Sadia Siad, Ph.D.,

Chancellor of Hano Academy

Next Einstein Forum (Africa's Global Forum for Science) Ambassador for Somalia and the Chair of the Somali STEM Summit Organising Committee

## About the Somali STEM Summit

The Somali STEM Summit is part of Africa Science Week, which is widely celebrated annually across many countries in Africa. Students, scientists, academics, researchers, professionals and the general public will actively participate in the Somali STEM Summit in Mogadishu from 10th to 13th July 2018 in order to enhance knowledge and skills and contribute to the fields of Science, Technology, Engineering and Mathematics (STEM) in Somalia.

### Aim

STEM subjects form a strong knowledge base that is critical in the performance of most jobs. Most future jobs will require a strong understanding of STEM subjects, thus:

- The aim of the Somali STEM Summit is to revive, evolve, encourage and assist next generation Somali Scientists, Technologists, Engineers and Mathematicians to create, innovate and excel in their specialised fields of study or practice thus improving the overall quality of STEM education, business and industry in the Somali development and its effectively participation in the STEM global movement.

### Objectives

The summit's achievements will comprise:

- Create Somali unity and integration in the field of Science, Technology, Engineering and Mathematics (STEM)
- Involve students, teachers/academics, researchers and professionals from diverse STEM fields in science contests, exhibitions, plenary sessions and presentations.
- Encourage students and youth to develop their interest in and curiosity about learning STEM subjects through stirring exhibits, plenary sessions, presentations, symposiums, career fair, workshops, seminars, competitions and STEM Fair.

To be a collective Somali Initiative for Science, Technology, Engineering and Mathematics (STEM), the Somali STEM Society has invited Somali STEM educators and professionals from Hargeisa, Burco, Laascaanood, Kismayo, Bosaso, Garowe, Baladweyn, Wajid, Baidoa, Galkalo and Mogadishu, as well as from Diaspora.

This four-day Summit will comprise of a general meeting on the 13<sup>th</sup> July and a three-days (10<sup>th</sup> - 11<sup>th</sup> - 12<sup>th</sup> July) activities with science presentations, exhibits and talks which will enhance the visibility of STEM education by facilitating different age groups and STEM professionals, providing an opportunity to get engaged in everyday science and instilling interest and

curiosity of learning about STEM subjects in Somalia.

This year's theme is **"Rekindling Somali Knowledge and Interest in STEM"** and the following activities will be delivered:

- Secondary Schools and University Competitions in STEM
- STEM Symposiums, Workshops and Seminars
- Expert Speakers and Plenary Sessions
- STEM and Entrepreneurship
- STEM Fair and Exhibitions
- Innovative Projects
- Women in STEM
- Food Science

## Expected Outcomes

### Short Term Expected Results

1. Raising national awareness on the importance of Science, Technology, Engineering and Mathematics (STEM) in Elementary, Secondary and Higher Education
2. Enhancing rigor of STEM education
3. Linking commerce, industry and STEM education
4. Establishing the Somali STEM Association/Society comprising the attendees and professionals in STEM and/or related fields
5. Creating a platform to enhance knowledge and skills in STEM subjects.

### Long Term Expected Results

1. Public and private partnership in STEM education
  2. Enhancing STEM knowledge and skills in the public and private sector
  3. Revitalising small and large scale industry and commerce
  4. Enriching creativity of students through experimental kits and hands-on activities; STEM project experiments in and out of classrooms and various media
  5. Showcasing STEM activities and programme demonstrations at the Somali STEM Annual Summits and quarterly regional meetings
  6. Collaborating closely with the Ministry of Education, Culture and Higher Education in supporting STEM activities and projects in schools and universities
  7. Connecting the Somali STEM Society with other STEM projects in Africa and elsewhere.
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## Justification - Why the Somali STEM Summit is Important

Somalia is a society that is emerging from a prolonged conflict and is at a critical stage in terms of enhancing its educational institutions with the aim of science and technological advancement. Unfortunately, Somalia is one of the few countries in the world with limited capacity for manufacturing and industry, and therefore depends heavily on foreign imports for all of its manufactured goods. Although the country has started its reconstruction process, it clearly lags behind in terms of technological advancements and innovations, as well as in science, engineering and mathematics.

The Summit will challenge the students to become active scientists and innovators rather than passive consumers of foreign products. It will lay the foundation for the formation and launch of the techno-hub in Somalia, and thereby encourage participation of the young men and women in the reconstruction of Somalia.

The Summit will help energise critical thinkers, raise and promote science literacy and plant the seeds for the next generation of STEM innovators in Somalia. The innovation will lead to the potential development of new products and processes necessary for sustaining the economy.

Hosting the Somali STEM Summit will provide a viable platform through which many students nationwide will learn the importance of science, technology, engineering and mathematics (STEM) as well as showcase to the region and the world that Somalia is open for business. It will also create a platform for exposing technological experts and nurturing them to succeed. Although most countries have introduced STEM education, Somalia's education sector is still grappling with many challenges including lack of a unified central curriculum with strong emphasis on STEM subjects. This is a critical state that needs immediate attention and if not timely addressed in time, will have a major effect on the future growth of the Somali economy. The Summit will therefore seek to correct the situation by laying a sound foundation through sustained and solid STEM education.



## Importance of Participations

Participating in this Summit is very important as it provides avenues for gaining more skills, training and knowledge in STEM. Knowledge is gained through exchange of ideas, workshops, seminars, exhibitions and collaborations with fellow participants, as well as expert panel discussion and talks and presentations. The Summit also creates an environment that provokes the participants to think creatively and to generate challenging projects that can lead to innovations.

Science and technology are the backbone of any meaningful education system. Lack of quality and relevant STEM courses leads to incompetency and a poorly educated workforce that cannot offer solutions to emerging global technological challenges. As other countries set to become fully industrialised by 2030, some nations such as Somalia have yet to develop and announce their blueprint with benchmarks and targets. This hinders effective planning, and spells trouble for the nation's future development.

By attending the Summit, participants will become not only consumers, but also critical thinkers and problem solvers. If sustained, the trend can lead to immense success in STEM education both at the individual and the national level.

Participants will get a chance to contribute to the development of the first STEM educational curriculum. Many practitioners and scholars argue, that the nation requires a solution-based educational curriculum rather than the current one that emphasises basic theoretical consumption of educational concepts. Therefore, this Summit will help lay the foundation for identifying the role of STEM subjects in improving educational standards and the overall quality of education within the nation.

The Summit is part of the STEM campaign that will involve local and national government, academics, experts, students and the general public. One of the main goals of the campaign is to increase STEM literacy throughout the country and to enable students to learn deeply and think critically in all subjects but particularly in STEM.

In addition, participants will gain STEM education that provides them with training and professional development in STEM in sequences that can be used with real world applications.

By attending the Summit, the participants will be enhance their STEM knowledge and those attending special demonstration sessions will be equipped with the knowledge and skills to solve tough problems, gather and evaluate evidence, and make sense of information. Students who participate in STEM competitions will receive special awards as well as certificates of participation



## Programme Layout

**Day One 10 July 2018 – Opening Ceremony, Plenary Session, STEM Fair – Hands-On STEM Activities and Public Lectures (Focus on Somali STEM Experts)**

**Master of Ceremony:** Ibrahim Sheikh Ahmed

**Venue:** MIA Hangar

**07.30 – 08.30:** Registration, Coffee and Networking

**08.30 – 09.50: Opening Ceremony**

1. Quranic Recitation
2. The Journey of Somali STEM Summit & the Importance of STEM Education - [Dr. Sadiyo Siad](#)
3. Somali STEM Poem - [Yahye Dahir Hussein](#)
4. Innovate for Somalia – [Mr George Connway](#) UNDP Country Director
5. Opening Remarks: - Minister of Education, Culture and Higher Education - [H.E. Abdirahman Dahir Osman](#)
6. Opening Ceremony - Embracing STEM Education in Somalia - [H.E. Mr. Hassan Ali Khayre](#), the Prime Minister of the Federal Government of Somalia

**Opening Remarks & Panel I: Reviving Somali Knowledge & Interest in STEM**

**09.50 – 11:00:** Plenary Session – Reviving Somali Knowledge & Interest in STEM

**Moderator:** Ibrahim Shiekh Ahmed

**Panel lists:**

1. Minister of Planning, Investments, and Economic Development - [H.E. Amb. Gamal Hassan](#)
2. Minister of Health and Social Care: [H.E. Dr Fowsiya Abikar Nur](#)
3. State Minister of Commerce and Industry: [H.E. Dahir Abdi Abdullahi](#)
4. Mayor & Governor of Mogadishu – [Eng. Abdirahman Osman](#)

**Panel II: STEM in Action – Experts in the Spotlight**

**11:00 – 12:00:** Plenary Session: **STEM in Action – Experts in the Spotlight**

**Moderator:** Dr. Aweys Mohamud

**Panel lists:** STEM Experts, STEM Researchers & STEM Academics

**12.00 – 13.30:** STEM Fair (Hands-on STEM Activities), Prayers, Lunch and Networking

**Panel III: Making STEM Work in Somalia****13:30- 14:30:** Plenary Session – Making STEM Work in Somalia**Moderator:** Abdullahi Sheikh Muse**Panel lists:** Educators, Educational officials & STEM Experts**14.30 - 14.50:** STEM Education: A Catalyst for National Development**H.E. Dr. Abdinur Mohamed** (Former Minister of Education, Culture & Higher Education)**14.50 - 15.10:** Public Lecture on STEM - **Dr Ali Faqi****15.10 – 15.30:** Coffee Break, Asar prayers and networking**Panel IV: Innovate for Somalia****15.30 – 16.30:** Plenary Session – Innovate for Somalia**Moderator:** Ahmed Elmi**Panel lists:** STEM Experts, Government Officials & UNDP**16.30 – 17.00:** Adjournment**Day Two: 11 July 2018 – STEM in Universities****Master of Ceremony:** **Abdullahi Sheikh Muse****Venue:** Beerta Nabadda (Peace Garden).**07.30 – 08.30:** Registration, Coffee and Networking**Panel V: Changing the Way We Learn: Building Scientific Culture****08.30 – 09.30:** Plenary Session – Changing the Way We Learn: Building Scientific Culture**Panel lists:** STEM Experts, Universities Representative, Gov. Officials**09.30 – 10.30:** Presentation - Secondary School Competitions**Panel VI: Feeding Somalia - Food Security and Poverty Alleviation (How Science Can Play a Role in Food Industry)****10.30 – 11.30:** Plenary Session - Feeding Somalia: Food Security and Poverty Alleviation (How Science Can Play a Role in Food Industry)**Panel lists:** STEM Experts, Universities Representative, Gov. Officials

**11.30 – 12.30:** Symposiums

**12.00 – 12.30:** STEM Award Ceremony

**12.30 – 13.30:** Prayer, Launch and Networking

**13.30 – 16.30:** Breakout Sessions

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1. Exhibitions
  2. Workshops and Seminars
  3. STEM Fair – Hands-on Activities
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**16.30 – 17.00:** Adjourment

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### Day Three: 12 July 2018 – STEM in Secondary Schools

**Master of Ceremony:** Abdullahi Sheikh Muse

**Venue:** Beerta Nabadda (Peace Garden).

**07.30 – 08.30:** Registration, Coffee and Networking

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**Panel VII: Learning to Lead: What Capacities do Scientists of Tomorrow Need?**

**08.30 – 09.30:** Plenary Session – Learning to Lead: What Capacities Do Scientists of Tomorrow Need?

**Panel lists:** Universities, Global Experts & Civil Society

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**09.30 – 10.30:** Presentation - University Competitions

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**Panel IX: STEM Education: Key to Development**

**10.30 – 11.30:** Plenary Session – STEM Education: Key to Development

**Panel lists:** Universities, Global Experts & Government Officials

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**11.30 – 12.30:** Career Fair

**12.00 – 12.30:** STEM Awards Ceremony

**12.30 – 13.30:** Prayer, Launch and Networking

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**13.30 – 16.30:** Breakout Sessions

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1. Exhibitions
  2. Workshops and Seminars
  3. STEM Fair – Hands-on Activities
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**16.00 – 16.30:** Closing Ceremony

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Closing Remarks

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## Profile of Expert Speakers



### **Dr. Hodan S. Isse**

Dr. Hodan S. Isse is a Central Bank of Somalia Board member and a former clinical Assistant Professor Emeritus of Finance in the School of Management at the University at Buffalo. Dr. Hodan has extensive background in monetary and fiscal policy, financial modeling, and forecasting. Her area of expertise include concentration and knowledge of the role of government in setting fiscal and monetary policies to achieve economic growth, full employment, and stable price levels and functioning financial institutions. Dr. Isse's research focuses on the problems and the potential of effective federal, regional and commercial banks of Somalia. She outlined the important characteristics of a working fiscal federalism in Somalia.



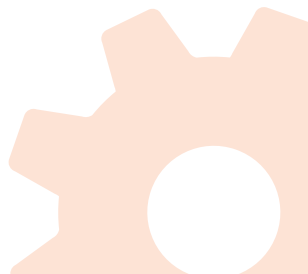
### **Dr. Abdinur Mohamud**

Dr. Abdinur Mohamud is a former Minister of Education, Culture and Higher Education of the Transitional Government of Somalia in 2010-2011. Dr. Mohamud is a former educational consultant with the Ohio Department of Education and is now with the Institute for Education and Development. Dr. Mohamud earned a bachelor's of Science degree in Mathematics and a minor in Physics at College of Education of the Somali National University before pursuing a doctorate in Education Administration at Ohio University.



### **Mr. Asad Qasim**

Mr. Qasim was a maintenance engineer at oil and Gas Company in Norway as a quality control troubleshooter for subsea technology. Dr. Qasim is also a technical tutor/lecturer at technical college in Norway and teaching TVET since 2011. Dr. Qasim teaches courses at both the technical college and adult education program. Subjects taught include electrical, electronics, renewable energy / solar and wind systems, smart technology like automation, robotics, drones etc.



## Profile of Expert Speakers



### Dr. Ali S. Faqi

Dr. Ali S. Faqi is the Somali Ambassador to Belgium, Netherlands, Luxembourg (Benelux) and European Union since June 2013. He served as the Somali Ambassador to France until November 2016. He is also the Somali Representative to ACP in Belgium, UNESCO in Paris and the Organization for the Prevention of Chemical Weapons (OPCW) in the Hague-Netherlands. Dr. Faqi served as an Interim Chief of Staff for the Somali President during the transition period (February- April, 2017). Dr. Faqi was a Sr. Director of the Department of Developmental and Reproductive Toxicology at MPI Research from June 2003-April 2017; a Research Institute specialized in conducting Nonclinical Research for Drugs and Vaccines used for Human Health. Dr. Faqi is a renowned scientist in the field of Birth Defect, and Reproduction. Dr. Faqi holds a doctor's degree in Veterinary Medicine from the Somali National University, Diploma of Specialization in Experimental Pharmacology from the University of Milan and a PhD in Toxicology from the University of Leipzig. He is a Diplomate of American Board of Toxicology (DABT) and a Fellow Academy of Toxicological Sciences (FATS).



### Mr. Ali Omar

Ali Omar has a Master's of Business Administration from California State University, Fresno in collaboration with Somali Institute of Development Administration and Management (SIDAM) and Bsc in Electrical Engineering from Somali National University, Mogadishu-Somalia. He has worked in the information technology field for over 30 years. Starting as teaching assistant and progressing to lecturer at SIDAM. Ali Omar briefly relocated to Jeddah, Kingdom of Saudi Arabia and worked IKEA as an Accounting Information Technology specialist in 1992 before Ali Omar moved to Raleigh, NC USA in 1995. Ali Omar has worked for International Business Machines (IBM) at Research Triangle Park, NC 1995 to 2014 and retired from IBM in 2014. In 2014 Ali Omar returned to Somalia and joined FGS to support the recovery process and become chief of staff of President Hassan Sheikh Mohamed. Ali Omar is currently a member of Somali Federal Parliament and likes to do volunteer work in the community.

## Profile of Expert Speakers



### Dr. Aweys Omar Mohamoud

Dr. Aweys Omar Mohamoud is an educationist, language trainer and consultant. He has earned a Masters Degree and a PhD from the UCL Institute of Education, University of London. Dr. Mohamoud is a currently a Change Management Technical Advisor at the Ministry of Education, Culture and Higher Education (MoECHE).



### Mr. Faadil Siyaad

Faadil Siyaad is a professional digital artist and programmer. He is the co-leader of PDT, a team of artists and programmers for hire. They collectively program flash games, html interactive interfaces and create artworks and banners for companies. Faadil is extremely knowledgeable in the following programming languages—Python, C++, SQL and Java. Faadil founded the PDT (Plugin Development Team) with a colleague at the summer of 2013. At 2018, Faadil and his team has been able to recruit several gift artists, some which are skilled in fine art, printmaking and design technology. They also have talented programmers who have worked on other official projects. Moreover, Faadil has sold various artworks, which range in game concept art and company banners, his work can be found at [deviantart.com](https://www.deviantart.com). Presently, the PDT are working on lucrative projects such as web design, software and Indie games.



### ABDINASIR ALI MOHAMED,

Founder of Ilay Academy, Delivering K-13 International Curriculum of Edexcel UK.

Current Consultant at the Ministry of Education, Culture and Higher Education

Academic Background: BSc MSc in Psychology from the Royal Holloway University of London

Interest in: Education leadership, Social Identity, Peace building and Citizenship



## Profile of Expert Speakers



### Mr. Mohamed A. Mohamed

Mohamed Abdi Mohamed was the former Associate Chief Financial Officer for the Government Operations Cluster, a subset of the total agency population of the Government of the District of Columbia in Washington, DC. The Government Operations Cluster is comprised of 37 District of Columbia governmental agencies. In his capacity, Mr. Mohamed is responsible for the administration and oversight of the Budgets with a combined local and federal budget of approx. \$2 billion annually. With more

than 20 years of public financial management experience, he provides the Government Operations Cluster with demonstrated experience and expertise in strategic financial analysis and planning, budget development and program management. Mr. Mohamed is a member of the Government Finance Officers Association (GFOA) and the National Association of State Budget Officers (NASBO). Mr. Mohamed is married and has two sons and two daughters.



### Eng. Abdullahi Sh. Mohamed

Eng. Abdullahi is Academician and the Dean of the faculty of Engineering at Jamhuriya University of Science and Technology (JUST) and the Secretary of Jamhuriya Foundation since 2014, and served as the Head of Examination Office at JUST during the period from Sep 2013 up to Aug 2014; and he is a member of Institute of Electrical and Electronics Engineers (IEEE). Eng. Abdullahi won the "Excellence Performance Award" given by Islamic Development Bank for his outstanding academic achievement

and leading role in the guidance and counselling activities in Oct 2011. Eng. Abdullahi awarded the Islamic Development Bank Scholarship for being the first rank of his class in the secondary school and Graduated from the Electrical Engineering Department at Jordan University of Science and Technology.



### Eng. Mohamed Said Yusuf

Eng Mohammed S.Yusuf is the Dean, Faculty of Engineering at Hormuud University also qualified inspector Civil Engineer, with Project Management; also having more than 5 years of work experience in Civil Engineering as supervision for Quantity Surveyor, Project Designer, Land Surveyor, and Technical Advisor with different LNGO, INGO, and Governmental Organizations.

Mohammed worked with Asia Inspection (China).PT Structural Engineering Auditor (QA/QC), 2015-2016 also served as lecturer with the highest qualified universities in Somalia. Mohammed had received his M.Sc. in Civil Engineering at Zhejiang University of Science and Technology China.



## Profile of Expert Speakers



### **Prof. Yasin M. Barqadle**

Professor Barqadle is a Computer and Electronics Engineer by training and worked in the field Information Technology (IT) for decades. He taught Information Technology and Information Security courses at universities in the US. Professor Barqadle served as a senior Patent Examiner for the U.S. Patent and Trademark Office (USPTO). He has examined over thousand patents and issued several hundred patents belonging to well known tech companies.



### **Hon. Prof. Dr. Osman Mohamud Dufle**

Hon. Prof. Dr. Osman Mohamud Dufle has lived all his entire life in his country Somalia. He graduated with a degree in Medicine from National University of Somalia, undertook his Post-graduate education in Internal Medicine, a specialized degree in Gastroenterology & Digestive endoscopy and another course in Abdominal Ultrasound in University of Rome (Sapienza), Italy. He supported in Health campaigns in Mogadishu and in IDPs camps such as cholera outbreak campaign in 1994; Measles campaign. He also worked with Somali transitional government to promote health in 2000-2012.

Dr Osman stayed in Somalia throughout the years of lawlessness, provided humanitarian assistance and converted a former prison to Keysaney Hospital. As a result of his hard work and dedication, was nominated for a Noble Prize in recognition of his humanitarian work is an inspiration to all Somalis by none other than His Excellence the President of Somalia Hassan Sheikh Mohamud.



### **Mr. Ibrahim Sh Ahmed Mohamed**

Ibrahim Sh. Ahmed Mohamed is an Organizational Change Management expert currently working for the Ministry of Education, Culture and Higher Education. Mr. Mohamed specializes in organizational cultures, governance, management systems and improvement. He was formerly a Senior technical advisor to the comprehensive project status review project as part of Somalia Capacity Injection project. Senior Technical Advisor, Civil Society Capacity Development, Gaziantep, Turkey. Mr. Mohamed holds Master of Public and International Affairs (MPIA), with focus on Global Security from Virginia Tech University.

## Profile of Expert Speakers



**Ciise M. XALANE, PhD.**

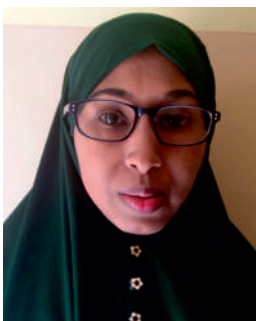
**Selfless passion to develop Somalia's professional scene**

A highly valued professional practitioner and academic with over 30 years of experience and achievements. Worked as professor, technical advisor and consultant in public and private sectors in Italy and Somalia. Carried titles like Head of research department, Head of international relations and head of postgraduate in university of Somalia. One of his great achievements was a role in directing strategic and policy settings for the ministry of Livestock as well as universities for research and developmental programs.



**Eng. Farhia Abdalla Mohamud**

Eng. Farhia Abdalla Mohamud is a graduate student at Hormuud University, Faculty of Engineering Department of electrical Engineering this year. Farhia took part a lot of projects related her career in Engineering and technology especially Department of electric.



**Eng. Zahra Abdikarim Ibrahim**

Eng. Zahra Abdikarim Ibrahim is Founder of Bilan Codes, Aflix Portal & SOTEC Inc. Mss Ibrahim is an award winning technology entrepreneur, lecturer, software developer. She did her bachelor's degree in Computer Science at the University of Science and Technology, Sana'a - Yemen.

She is the founder of SOSTEC Inc and Bilan Codes, a non-profit organization which empower young girls in Somalia with the computing skills and necessary tools for innovation & startups.



**Fardowsa Abdulkadir Abdi**

Fardowsa is a passionate girl who loves to challenge the odds and do what girl others may hesitate to do due to cultural barriers. She understands the importance of being an electrical engineer. Electricity in Somalia is very expensive and she hopes one-day she can contribute to improve lives of many by raising awareness and reducing electrical accidents that is the root cause of house fires in Mogadishu. She also has a passion for telecommunication engineering. Her thesis was improving accidents awareness in Mogadishu Somalia

## Profile of Expert Speakers



### **Dr Asha Omar Ahmed**

Dr Asha Omar Ahmed, born in Mogadishu, Somalia.

She obtained her degree in Medicine and a PhD in Gynaecology at La Sapienza University in Rome. She is the winner of international awards and is actively involved in fighting against the genital mutilation of women. She opened a treatment and prevention centre for women with pregnancies that were at risk and for children with congenital malformations. To help her people, Asha has also kept links with her Italian colleagues in Rome and Chieti where she often sends her patients when more complicated surgery is needed. She subsequently had to move to Djibouti where she has been working as a gynaecologist and has also been in charge of training medical staff and midwives coping with scarce equipment in often desperate situations.

She recognized Angel of Mogadishu who raised Martini hospital from the ruins of war. She also helps the Somali national army, renewing the first department in Xoog.



### **Mr. Ahmed Elmi Muhumad, MBA**

Ahmed Elmi Muhumad has more than 20 years of experience in leadership, management, planning and systems integration. Ahmed is a graduate of Franklin University in Columbus, Ohio with Masters of Business Administration (MBA) and Bachelor of Science in Information Technology. As a leader and specialist with strong business management and information technology background, Ahmed worked in the private and public sectors in the United States and in Somalia. He worked with the Federal Government of Somalia as a Senior Advisor on Leadership and Management to the Ministry of Commerce and Industry, Senior Advisor on Statistics to the Ministry of Planning and International Cooperation, Director General of Statistics, consultant in Aid Coordination and Management, and as capacity Building and Training. He also worked with international organizations including but not limited to Mansion Daniels of UK as a Health Advisor and as Immigration Management Capacity Building consultant with IOM in Somalia.

## Profile of Expert Speakers



### **Mr. Abdullahi Sh. Muse Hassan**

An entrepreneur and expert in publishing, library development and the printing press sectors. Educated in the UK; holding MA in International Publishing, Oxford Brooks University, Degree in International Relation and History, De Montfort University, and Higher Diploma in Social Enterprise, University of Leicester, Leicester, UK.

Has run a number of successful businesses and charitable organizations in the UK, including Zaylai Books; a publisher and books supplier to schools and libraries in UK.

Accomplished a number of significant projects in Mogadishu including the opening of a public library with 50,000 books (2006), health care centre (2007) among others.

Established a leading printing press business in 2014, (SomPrint Ltd), which employs of over 70 people and provides backbone services to the government, the education institutions and to the public at large.

Currently resides in Mogadishu with his family and manages SomPrint Ltd, and teaches Publishing Studies at Somali National University.

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### **Mr. Abdullahi Nur Osman**

Abdullahi Nur Osman: is, Accountant, Social worker, Youth worker/mentor, Researcher, Activist.

Currently he is the executive manager of Hormuud Telecom Foundation first corporate Foundation in the Somali history, also he is Secretary General of Somali Business and Investment Council and Secretary of Senior Somali Business Advisory Council. Founder and former Director of Somali Advice and Development Centre in London . former Chair of Governing body of Dormers wells junior School in London. former Board member of Children

Safeguarding Board, and Children, Young People Strategic Partnership at London borough of Ealing London., Advisor to Local Education in London borough of Ealing

Abdullahi holds BA, in Accounting and Business Finance, PGD in Finance and Accounting, PGD in Social work

## Profile of Regional Experts & Participants



**Name:** Abdi MuminNur

**City:** Baladwyne

**Academic and experience:** Civil Engineering

**Occupation and place:** Site Engineering



**Name:** Ahmed Ibrahim Omar

**City:** Buurhakaba

**Academic and experience:** chemist

**Occupation and place:** Teacher of General Math and Chemistry



**Name:** Bile Hussein Ali

**City:** Galmudug

**Academic and experience:** Math and Physics

**Occupation and place:** Math and Physics Teacher



**Name:** Mukhtar Mohamed Ibrahim

**City:** Baidoa

**Academic and experience:** Math & Physics

**Occupation and place:** Math & Physics



**Name:** Ismail ali mohomud

**City:** Jubaland

**Academic and experience:** Math & Physics

**Occupation and place:** Math & Physics

**Name:** Ahmed Abdishakur

**City:** Hargeisa

**Academic and experience:** Chemical engineering & Petrochemicala

**Occupation and place:** Consultant of Berbera Oil Group



**Name:** Ahmed Adem Hussein

**City:** Beledweyn

**Academic and experience:** Education

**Occupation and place:** Lecturer Physic & Maths



**Name:** Mahad Abdi Ahmed

**City:** Hobyo

**Academic and experience:** Math and Physics

**Occupation and place:** Math and Physics Teacher



**Name:** Abdiasis Farah Said

**City:** Bosaso

**Academic and experience:** Telecommunications

**Occupation and place:** Telecommunications



**Name:** Abdihalim Adam Abdirahman

**City:** Nugaal

**Academic and experience:** Computer and Information Systems

**Occupation and place:** Computer and Information Systems



**Name:** Sayid Ahmed Mohamed

**City:** Mogadishu

**Academic and experience:** Master of Arts in Development studies (MDS)

**Occupation and place:** Principle of global school







**Name:** Yusuf Ali Yusuf

**City:** Bosaaso

**Academic and experience:** Master of Engineering

**Occupation and place:** Chief Technology Officer (CTO),  
Golis



**Name:** Abdirahman Mahamud Kulmiye

**City:** Kismayo

**Academic and experience:** Medicine and Health  
Science

**Occupation and place:** Lecturer and Admission and  
Registration officer of KU



**Name:** Abdullahi Abdulle Ali

**City:** Mogadishu

**Academic and experience:** Master Degree of Public  
Health

**Occupation and place:** Vice Chairman of Banadir Zone  
School Board



**Name:** Yaxye Dahir Xuseen

**City:** Muqdisho

**Academic and experience:** Computer Science and  
Hardware

**Occupation and place:** Teacher at Hano Academy

## Sponsors, Contributors, Partners, Affiliations and Participating Institutions

Somali STEM Society would like to thank 'Hormuud Telecom Foundation' who have sponsored this Summit with openness and thoughtfulness and understanding what many do not. We appreciate Hormuud's support and strong vision to make Somalia greater.



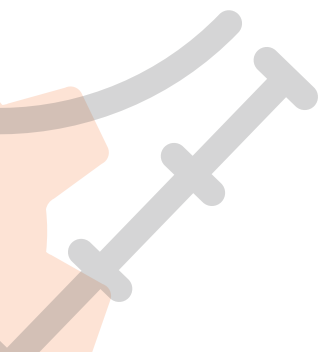


## Joining the Somali STEM Society

The Somali STEM Society (also known as the Somali STEM Association) welcomes members from across the country including academics, students, researchers and all other science and technology-oriented professionals. Members are encouraged to participate fully in all activities of the association in order to maintain membership status. The Somali STEM Society seeks to empower students, professionals and all interested people and help them become the next generation innovators.

To join the association one must be aged 16 years and above and must have a burning desire for and interest in STEM education. The association will hold summits, seminars and workshops periodically to nurture the talents of existing and upcoming and existing scientists, engineers, technocrats, and mathematicians.

To become a member, please talk to our protocol team at the summit or register on our website: <http://www.somalistemsociety.org>



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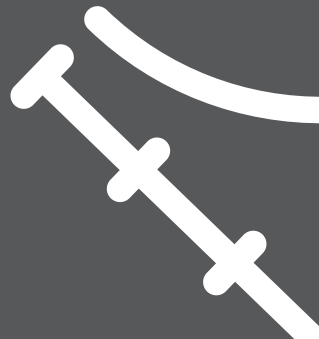
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“

*Encouraging students  
and youth to develop their  
interest in and curiosity  
about learning STEM subjects*

”





***'Cultivating Future Innovators'***

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